Synonyms and Antonyms Test 223

- Thaumaturgist
 - Producer
 - (B) Dreamer
 - (C) Philosopher
 - (D) Thief
 - (E) Miracle worker
- 99. Tureen

 - Young lady
 - (B) Irish stew Soup dish
 - (C) (D) Bend
 - (E) Collision

- 100. Valetudinarian
 - Senile person
 - Fare well speaker
 - Healthy person
 - Servant
 - Agent

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Master Job Aptitude Test Synonyms and Antonyms Test 224

ANSWER KEY

1.	В	21.	В	41.	Α	61.	С	81.	В
2.	С	22.	Α	42.	D	62.	С	82.	Α
3.	Α	23.	Α	43.	С	63.	Α	83.	Α
4.	D	24.	D	44.	В	64.	В	84.	D
5.	E	25.	E	45.	Α	65.	D	85.	В
6.	С	26.	Α	46.	С	66.	Α	86.	Е
7.	С	27.	Α	47.	Α	67.	Α	87.	D
8.	D	28.	В	48.	E	68.	Α	88.	С
9.	D	29.	Α	49.	С	99.	В	89.	E
10.	Е	30	D	50.	Α	70.	D	90.	В
11.	D	31.	С	51.	В	71.	В	91.	С
12.	С	32.	С	52.	D	72.	D	92.	Α
13.	Α	33.	В	53.	В	73.	Α	93.	С
14.	В	34.	С	54.	Α	74.	С	94.	В
15.	С	35.	D	55.	Α	75.	С	95.	В
16.	D	36.	С	56.	С	76.	В	96.	Α
17.	В	37.	D	57.	С	77	С	97.	В
18.	С	38.	С	58.	Α	78.	В	98.	E
19.	С	39.	В	59.	D	79.	Е	99.	С
20.	D	40	В	60	Α	80	D	100.	С

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 * Visit our website www.iecnetwork.com and download more questions and answers
- * Attend our monthly seminar.
 - Call 08033438062 for lecture arrangement at our office.

IEC CAREER TRAINING NETWORK

Master Job Aptitude Test Verbal Analogies Test 225

VERBAL ANALOGIES TEST

30 QUESTIONS 10 MINUTES

DIRECTIONS

In each question, the capitalized words have a certain relationship to each other. Select the letter of the parts of words that are related in the same way as the two capitalized words.

(A) mechanic: wrench
(B) carpenter: saw
(C) draftsman: ruler
(D) doctor: prescription

WOODSMAN: AXE::

- 2. BIGOTRY: HATRED::
 (A) sweetness: bitterness
 (B) segregation: integration
 (C) fanaticism: intolerance
 (D) sugar: grain
- 3. ASSIST: SAVE::

 (A) request: command
 (B) rely: descry
 (C) hurt: aid
 (D) declare: deny
- 4. 2:5:: (A) 57 (B) 6:17 (C) 6:15 (D) 5:14
- 5. DOUBLEHEADER:TRIDENT::
 (A) twins:troika
 (B) ball game:three bagger
 (C) chewing gum:toothpaste
 (D) freak:zoo
- 6. BOUQUET: FLOWER::

 (A) key: door

 (B) air: balloon

 (C) skin: body

 (D) chain: link
- LETTER: WORD::

 (A) club: people

 (B) homework: school

 (C) page: book

 (D) product: factory

- 8. 36:4:: (A) 3:27 (B) 9:1 (C) 12:4 (D) 5:2
 - GERM: DISEASE::
 (A) trichinosis: pork
 (B) men: woman
 (C) doctor: medicine
 (D) war: destruction
- (A) pinnacle: nadir
 (B) mountain: peak
 (C) sea: ocean
 (D) breaker: swimming
- 11. CONTROL:ORDER::
 (A) joke:clown
 (B) teacher:pupil
 (C) disorder: climax
 (D) anarchy:chaos
- 2. WOOD: CARVE::
 (A) trees: sway
 (B) paper: burn
 (C) clay: mold
 (D) pipe: blow
- 13. STATE:BORDER::
 (A) nation:state
 (B) property:fence
 (C) Idaho:Montana
 (D) planet:satellite
- 14. SOLIDER: REGIMENT::

 (A) navy: army
 (B) lake: river
 (C) star: constellation
 (D) amphibian: frog

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Master Job Aptitude Test

Verbal Analogies Test 226

15.	APO((A) (B) (C) (D)	GEE : PERIGEE : : dog : pedigree opposite : composite inappropriate : opposite effigy : statue	23.	BUZZ (A) (B) (C) (D)	: HUM : : noise : explosion reverberation : peal tinkle :clang echo : sound
16.	ASYL (A) (B) (C) (D)	LUM : REFUGEE : : flight : escape destination : traveler lunatic : insanity accident : injury	24.	BOXE (A) (B) (C) (D)	R : GLOVERS : : swimmer : water bacteriologist : microscope businessman : bills fruit : peddler
17.	WOR (A) (B) (C) (D)	RIED: HYSTERICAL:: hot:cold happy:ecstatic lonely:crowded happy:serious	25.	DECIS (A) (B) (C) (D)	SION : CONSIDERATION :: gift : party plea : request fulfilment : wish conference : constitution
18.	WOR (A) (B) (C) (D)	D: CHARADE:: phrase: act idea: philosophy fun: party message: code	26 .	ILLUS (A) (B) (C) (D)	ION : MIRAGE : : haunted : specter imagination : concentration dream : reality mirror : glass
19.	PLAY (A) (B) (C) (D)	ER:TEAM:: fawn:state book:story ball:bat fish:school	27.	FRAN (A) (B) (C) (D)	CE : EUROPE : : Australia : New Zealand Paris : France Israel : Egypt Algeria : Africa
20.	BANA (A) (B) (C) (D)	ANA: BUNCH:: city: state world: earth president: nation people: continent	28.	INSUL (A) (B) (C) (D)	T: INVULNERABLE:: success: capable poverty: miserable purchase: refundable assault: impregnable
21.	MOTI (A) (B) (C) (D)	H : CLOTHING : : egg : larva suit : dress hole : repair stigma : reputation	29.	POISO (A) (B) (C) (D)	DN : DEATH : : book : pages music : violin kindness : cooperation life : famine
22.	LINC(A) (B) (C) (D)	OLN; HUM:: Washington: D.C. Trenton: New Jersey New York: U.S. Chicago: New York	30.	ROCK (A) (B) (C) (D)	C: SLATE:: wave:sea boat:kayak swimmer:male lifeguard:beach

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Master Job Aptitude Test Verbal Analogies Test 227

ANSWERS AND EXPLANATIONS

- (B) A woodsman cuts with axe; a carpenters with a saw.
- 2. (C) Bigotry breeds hatred: fanaticism breeds intolerance.
- 3. (A) when you assist, you help: when you save, you help a great deal. When you request, you ask: when you command, you are very strong in what you ask for.
- 4. (C) 21/2 2=5:21/2 6=15=6:15
- (A) a double header has two parts: a trident has three teeth. Twins are two of a kind: a troika is a vehicle drawn by three horses.
- 6. (D) a flower is part of a bouquet; a link is part of a chain.
- 7. (C) Letters make up a word: page make up a book.
- 8. (B) 36 9=4;9 9=1
- (D) A germ often causes diseases a war often causes destruction.
- 10. (B) The top of the wave is the crest; the top of the mountain is the peak.
- 11. (D) Control results in order: anarchy results in chaos.
- 12. (C) One creates something by carving wood: one creates by molding clay.
- 13. (B) A border separates one state from another: a fence separates one property from another.
- 14. (C) A soldier is part of a regiment: a star is part of a constellation.
- 15. (C) Apogee and perigee are opposite, as are inappropriate and opposite.
- A refugee seeks asylum; a traveler seeks a destination.

- 17. (B) One who is greatly worried may become hysterical: one who is very happy may well be ecstatic.
- 18. (D) A word may be disguised by a charade; a message may be disguised by a code.
- 19. (D) A player is part of a team; a fish is part of a school.
- 20. (A) A banana is one of several bananas in a bunch: a city is one of several cities in a state.
- 21. (D) A moth will injure clothing: a stigma will injure a reputation.
- 22. (B) Lincoln is the capital of Nebraska: Trenton is the capital of New Jersey.
- 23. (C) The words buzz and hum are onomatopoetic, as are the words tinkle and clang.
- 24. (B) A boxer uses gloves in his profession: a bacteriologist uses a microscope in his profession.
- 25. (C) Consideration is a likely preliminary before making a decision; wish is preliminary to the fulfilment of that wish.
- 26. (A) An illusion is a mirage; a haunted is a specter.
- 27. (D) France is a country in Europe; Algeria is a country in Africa.
- 28. (D) A person who is invulnerable can not be hurt by an insult; a city that is impregnable cannot be hurt by an assault.
- 29. (C) Poison often results in death; kindness often results in cooperation.
- 30. State is a type of rock; a kayak is a type of boat.

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Master Job Aptitude Test

Graphical and Data Analysis Test 228

PART THREE

GRAPHICAL AND DATA ANALYSIS TESTS

For Oil Companies, Multinationals, Marketing Firms, Industries, Engineering Firms etc.

Note: Some Banks might use these tests also.

IEC MONTHLY SEMINAR

IEC CAREER TRAINING NETWORK

37 QUESTIONS 20 MINUTES



IEC CAREER TRAINING NETWORK

In the test you will be using facts and figures presented in various statistical tables to answer questions designed to assess your ability to evaluate numerical data.

In each question, you are given either five or ten options to choose from. One and only one, of the options is correct in each case. Note that for questions which have 10 options, you may have to fill in more than one circle to indicate your answer. For example, for a question for which you thought the right answer was 'AC' you would fill in both circle A and circle C.

NEW ADMISSION FOR PROFESSIONAL ASSOCIATIONS 1984

	GRADUATES		NON	GRADUATES	
		%		%	
ACCOUNTANCY & LAW	3572	18.3	5140	34.8	
ENGINEERING	7094	36.5	362	2.5	
SCIENCE & TECHNOLOGY	2447	12.6	816	5.5	
OTHERS (COMMERCIAL)	4759	24.5	3666	24.8	
OTHERS (TECHNICAL)	1576	8.1	4786	32.4	
ALLPROFESSIONS	19448	100%	14770	100%	

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Graphical and Data Analysis Test I 230

	SIMMS & CO. DOUBLE GRAZING SALES REP. MILEAGE CHART						
	BROWN JENNINGS						
WEEK1	490	630					
WEEK 2	502	322					
WEEK 3	307	496					
WEEK 4	725	525					
WEEK 5	489	821					

NORTH ATLANTIC OIL FIELDS 1985 Field Average daily Operating cost **Exploration and** Total output Output Average of capital costs per year (Tones barrels) (million tonnes) (million tonnes) previous year ORION 150 90% 210 9,000 **JUPITER** 224 80% 240 6,000 **GALILEO** 510 150% 300 8,000 SATUS 418 110% 375 12,000 NEPTUNE 240 75% 120 12,000

CROSS CHANNEL FERRIES TO AND FROM DOVER							
TO CALAIS	TO BOULOGNE	FROM CALAIS	FROMBOULOGNE				
3:30	3:00	02:00	03:30				
06:00	06:15	04:30	06:45				
08:30	09:30	07:00	10:00				
etc. until	etc. Until	etc. Until	etc. until				
23:30	19:15	22:00	19:45				

NB: All time are local time i.e France 1 hour ahead. Crossing time to/from CALAIS: 1 1/4 hours. Crossing time to/from BOULOGNE: 1 1/4 hours.

IEC CAREER TRAINING NETWORK

Graphical and Data Analysis Test I 231

Master Job Aptitude Test

Graphical and Data Analysis Test I 232

	WORLD TOURISM 1981 Most popular Destinations							
UK Tourists		French Tourists		German Tourists		American Tourists		
Spain	2,172	Spain	9476	Denmark	13,307	Canada	11,641	
France	2,000	Italy	1,678	Austria	7,369	Mexico	2,700	
Italy	690	U.K	1,171	Spain	3,000	Italy	1,840	
Germany	673	Switzerland	644	Italy	3,500	U.K	1490	
Netherlands	531	Germany	579	France	2,890	Germany	1,232	
Beijing	472	Austria	368	Switzerland	1,589	France	1,035	

TOTAL HOME POPULATIONS

<u>UK</u> <u>FRENCH</u> 50,000 50,000

GERMAN 60,000

AMERICAN 230,000

ALL FIGURES IN THOUSANDS

	BARLOW CHEMICALS							
	1986	1987	1988	1989	1990			
Capital	N789,600	N884,300	N944,000	N1,126,000	N1,261,200			
Ratio (turnover Capital)	1.4:1	1.2:1	1.3:1	1.4:1	1.3:1			
Pre tax Profit	N157,920	N221,000	N210,000	N225,200	N252,240			

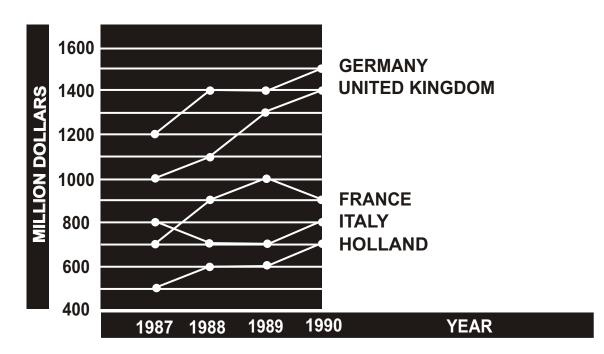
COFFEE PRICE INDEX							
YEAR	GENERAL INFLATION RATE FOR THE YEAR (JAN - DEC)	COFFEE PRICE INDEX AT START OF YEAR					
1975	6%	100					
1976	10%	124					
1977	10%	135					
1978	7%	110					
1979	12%	123					

Population Structure 1985							
	Population At start of Year	Live Births per 1000 population	Deaths per 1000 population	Percentage of population at start of year aged			
	(Million)	(Jan-Dec)	(Jan-Dec)	under 15	60 or over		
UK	56.6	13.3	11.8	19	21		
France	55.2	13.9	10.0	21	19		
Italy	57.1	10.1	9.5	19	19		
Germany	61.0	9.6	11.5	15	20		
Spain	38.6	12.1	7.7	23	17		

Graphical and Data Analysis Test I 233

Master Job Aptitude Test

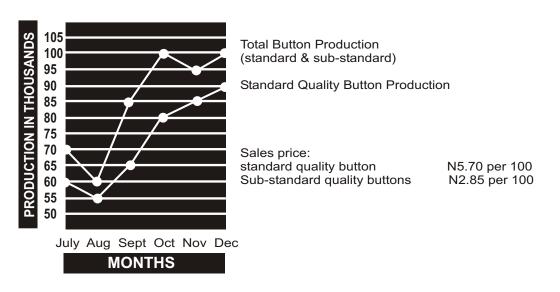
Amount spent on computer imports



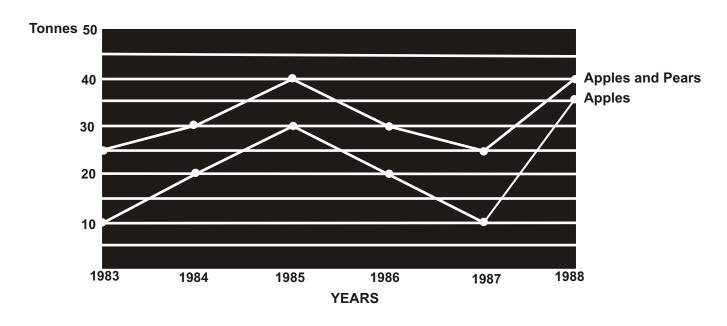
Newspaper Readership

DAILY NEWSPAPERS	Readersh	Readership (million)		of Adults n Paper in 1990
	1981	1990	Male	Female
The Daily Chronicle	3.6	2.9	7	6
Daily News	13.8	9.3	24	18
The Tribune	1.1	1.4	4	3
The Herald	8.5	12.7	30	23
Daily Echo	4.8	4.9	10	12

Production of 15mm Buttons, July-December



YEILD FROM DEVONVDALE ORCHARDS



Graphical and Data Analysis Test I 235

START

١.	vviiat portic	in or bevortdate or char	a 3 total production	ii 1303 was accounted	ioi by pear :	
	A	B	C	D	E	
	10%	25%	30%	45%	40%	
	AB	AC	AD	AE	BC	
	70%	50%	55%	60%	65%	
2.	How many dail	y sailing are there fron	n Dover to Boulogne	?		
	Α	В	С	D	Е	
	3	4	5	6	7	
	AB	AC	AD	AE	BC	
	8	9	10	11	none of these	
3.	Which profess	ional association had tl	ne highest number o	f new admissions in 19	84	
	Α	В	С	D	Е	
	Engineering	Accountancy	Science &	Others	Others	
		& Law	technology	(commercial)	(technical)	
4.	Approximately	how many miles did B	own cover during th	e five week period?		
	Α	В	С	D	Е	
	2,100	2,300	2,500	2,700	2,900	
	AB	AC	AD	AE	BC	
	3,100	2,300	3,500	3,700	3,900	
	3,100	2,300	3,300	3,700	3,900	
5	Which field pro	duced the most oil in 1	984 (not 1985)?			
	Α	В	С	D	Е	
	Orion	Jupiter	Galileo	Satus	Neptune	
6.	What was the a	approximate turnover o	f Barlow chemicals i	n 1989?		
	Α	В	С	D	Е	
	N274,200	N324,600	N494,300	N605,200	N804,300	
	. –					
	AB	AC	AD	AE	ВС	
	N1,000,000	N1,316,000	N1,576,000	N1,836,000	Cannot say	
7.	What proportio that year?	n of the UK population	in 1981 was equiva	lent to the number of UI	K tourists visiting France i	n
	A	В	С	D	Е	
	0.2%	0.4%	0.8%	1%	2%	
	AB	AC	AD	AE	ВС	
	4%	6%	8%	10%	Cannotsay	

What portion of Devondale orchard's total production in 1985 was accounted for by pear?

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Graphical and Data Analysis Test I 236

8.	How much high in 1975 and 197		ndex at the beginning	g of 1977 than if it has r	risen with general inflation ra	ate
	A 7.0	B 8.6	C 9.4	D 10.6	E 12.6	
	AB 15.0	AC 16.6	AD 1 8.4	AE 20.6	BC Cannot say	
9.	Which categor admissions in		ssociations had the g	greatest ratio of non-gr	aduate to graduate for new	
	A Engineering	B Accountancy & Law	C Science & Technology	D Others (commercial)	E Others (technical)	
10.		_	visited France than I	French tourists visited		
	A 740,00.0	B 1,910,000	2,311,000	2,650,000	E 3, 131,000	
	AB 3,428,000	AC 3,840,000	AD 4,016,000	AE 4,328,000	BC 4,840,000	
11.	_	=		rofit as a percentage o	-	
	A 1986-87 &	B 1986-87 &	C 1987-88 &	D 1987-88 &	E 1988-89 &	
	1987-88	1988-89	1989-90	1988-89	1989-90	
12.			reased by 50% in 198 85 compared with ou		ands of barrel would it avera	age
	Α	В	C	D	E	
	40 less	20 less	The same	20 more	40 more	
	AB 70 more	AC 110 more	AD 160 more	AE 180 more	BC Cannot say	
13.		offee rose by the ra en at the start of 19		1979, approximately I	how much higher would the	
	A 15	В 21	C 27	D 32	E 38	
	15	21	21	32	30	
	AB 43	AC 49	AD 54	AE 61	BC Cannot say	
					•	
14.		n two weeks was th orevious week?	nere the greatest prop	portional increase or d	ecrease in Brown's mileage	₹,
	Α .	В	С	D	E	
	Weeks 1-2	Weeks 2-3	Weeks 3-4	Week 4-5	Cannot say	

IEC CAREER TRAINING NETWORK

Master Job Aptitude Test Graphical and Data Analysis Test I 237

15. What was the approximate ratio of German to French tourists visiting Austria in 1981?

A	B	C	D	E
3:1	6:1	10:1	15:1	20:1
AB	AC	AD	AE	BC
25:1	30:1	35:1	40:1	Cannot say

16. If the output figure for the Galileo field represents crude oil only, which was 30% of the total output with the remainder being water, how many thousands of barrels of water were produced per day along with the oil?

A	B	C	D	E
270	340	680	910	1190
AB	AC	AD	AE	BC
1380	1700	2300	2860	Cannot say

17. If Brown received 5k per mile less than Jennings and Jennings was due N220.50 for week 1, how much was Brown due?

A	B	C	D	E
N14700	N171.50	N196.00	N252.00	N275.0
AB	AC	AD	AE	BC
N275.80	N292.00	N303.50	N322.50	none of these

18. If pears were sold for N385 per tonne, what was the value of Devondale Orchards' crop of pears for 1987?

A	B	C	D	E
N7,475	N8,475	N9,625	N10,475	N11,475
AB	AC	AD	AE	BC
N12,475	N13,475	N14,475	N15,475	Cannot say

19. What was the appropriate pre-tax profit of Barlow Chemicals as a percentage of turnover in 1990?

A 1%	5%	8%	11%	15%
AB	AC	AD	AE	BC
19%	23%	28%	32%	Cannot say

20. Which oil field has the highest ratio of annual operating costs to exploration and capital cost.

Α	В	С	D	E
Orion	Jupiter	Galileo	Satus	Neptune

21. What proportion of the total population of the tourist nations shown was equivalent to the number visiting

Italy in 1981	1?			
Α	В	С	D	E
0.1%	0.2%	0.3%	0.4%	1%
AB	AC	AD	AE	ВС
2%	3%	4%	10%	20%

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Graphical and Data Analysis Test I 238

22.	worth N300 per	ton, how much we	oles was of equal valuere apples worth per to	on?	rs in 1983 and pears were
	A N100	В N125	N150	D N175	E N200
	AB N225	AC N250	AD N275	AE N300	BC none of these
23.	In which catego		ssociations did the ra	tio of graduate to no	n-graduate admissions in
	A Accountancy & Law	B Engineering	C Science & Technology	D Others (commercial)	E none of these
24.	At the start of wh start of which ye		ffee price index show	the greatest percen	tage change, relative to the
	A 1976	B 1977	C 1978	D 1979	E cannot say
25.	How many Ferri (Dover time)?	es from the two Fre	ench ports are due to a	arrive at Dover betwe	een 1.45 pm and 4.00 pm
	A 0	B 1	C 2	D 3	E 4
	AB 5	AC 6	AD 7	AE 8	BC none of these
26.	What percentag	je of the total 15mn B	n button production w	as classed as sub-s	tandard in September? E
	10.5%	23.5%	15%	17.5%	20%
27.	How many live b	oirths occurred in 1 B	985 in Spain and Italy C	together (to the near D	rest 1,000)? E
	104,000	840,000	1,044,000	8,400,000	10,440,000
28.	In 1989, how mu A 650 million	uch more than Italy B 700 million	did Germany spend o C 750 million	on computer imports D 800 million	? E 850 million
29.	Which countries A	s experienced a dro B	op in the value of comp	outers imported from D	one year to the next? E
	France	France	Holland	U.K	Italy
	& Italy	& Holland	& Italy	& Holland	& U.K
30.		per showed the larg B	est change in female	readership betweer	n 1981 and 1990? E
	A Daily	The	C The	The	Cannot
	echo	Tribune	Herald	Daily Chronicle	say

IEC CAREER TRAINING NETWORK

Master Job Aptitude Test Graphical and Data Analysis Test I 239

31.	By how much di	id the total sales val	ue of November's bu	utton production vary f	rom October's?
	A	В	С	D	Е
	N28.50	N142.50	N285.00	N427.50	No
	(Decrease)	(Decrease)	(Increase)	(Decrease)	change
32.	What newspape	er was read by a hig	her percentage of fe	males than males in 1	990?
	Α	В	C	D	E
	The	The	Daily	Daily	The
	Tribune	Herald	News	Echo	Daily
					Chronicle
33.	What was the n	et effect on the UK p	opulation of the live	birth and death rates i	in 1985?
	Α	В	C	D	Е
	Decrease	Increase	Increase	Increase	Cannot
	of	of	of	of	say
	66,700	84,900	85,270	752,780	·
34.		oss in potential sales ns over the 6 month		e to the production of	sub-standard (as opposed to
	Α	В	C	D	E
	N213.75	N427.50	N2,137.50	N2,280.00	N4,275.00
35.	What was the co	ombined readership	of the Daily Chronic	cle, Echo and Tribune	in 1981?
	Α	В .	C	D	Е
	10.6	8.4	9.5	12.2	7.8
36.	Which country h	nad the highest num	ber of people aged	60 or over at the start o	of 1985?
	Α	В	' ' Č	D	Е
	U.K	France	Italy	Germany	Spain
37.	If the amount sp in 1991?	end on computer in	nports into the U.K ir	n 1991 was 20% lower	than in 1990, what was spent
	Α	В	С	D	Е
	1080	1120	1160	1220	1300

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Master Job Aptitude Test

Graphical and Data Analysis Test I 240

ANSWER KEY

1.	В	11.	D	21.	AB	31.	Ε
2.	D	12.	AE	22.	С	32.	D
3.	В	13.	E	23.	В	33.	В
4.	С	14.	С	24.	Α	34.	С
5.	С	15.	E	25.	Α	35.	С
6.	AD	16.	E	26.	В	36.	D
7.	AB	17.	Α	27.	С	37.	В
8.	AD	18.	С	28.	В		
9.	Е	19.	E	29.	Α		
10	С	20.	Е	30.	E		

IEC CAREER TRAINING NETWORK

GRAPHICAL ANALYSIS EXPLANATORY

1. Total production in 1985 = 40 tonnes

Total apple production = 30 tonnes

Therefore pears production = (40 - 30) tonnes

= 10tonnes

$$\frac{10}{40}$$
 X $\frac{100}{1}$ = 25% (B)

2. The times from Dover to Boulogne are:

3:00, 6:15, 9:30, 12:45, 16:00, 19:15

There are 6 sailing altogether. (D)

No of Accounting & law graduate

3572

No of accounting & law non graduate 5140

Total

8712

This is the highest of all the professional association new admission in 1984 (B)

490 + 502 + 307 + 725 + 489 = 2513

Approximately 2500 (C)

Total average daily output for Galileo in 1985 = 510

Total average output previous year

= 150%

Which is given as: 150 x 510

= 765

This is the highest production field in 1984 (C)

Capital in 1989=N1,126,00

Ratio of turnover: capital = 1.4:1

Therefore turnover = $1.4 \times 1,126,000$

Approximately = N1,576,000 (AD)

7. Total home population of UK in 1981 = 50,000

Total population UK visiting France = 2,000

:- proportion =
$$2,000 \times 100\%$$

50,000

=4% (AB)

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Coffee index at the end of 1975

= 6% rise from 100

$$= \frac{106}{100} \times \frac{100}{1}$$
$$= 106$$

Index at the end of 1976 is 10% of 106 which is

$$\frac{110}{100}$$
 x $\frac{106}{1}$

= 116.6

Coffee price index at the beginning of 1997 is 135.

No of others (Technical) graduates = 1576 = 4786

No of others (Technical) non graduates

Ratio of graduates to non-graduates =

This is the highest ratio of all the professional associations = 3:1(E)

10. No. Of German tourist that visited France = 2,890,000

No. Of French tourist that visited Germany = 579,000 1,890,000 - 579,000 = 2,311,000 (C)

11. Pre tax profit as a percentage of capital

$$= \frac{\text{Pre tax profit}}{\text{capital}} \quad \frac{\text{x}}{1} \quad \frac{100}{1}$$

For the different years

12. Neptune average output in 1985 = 240

Output for 1986 =
$$\frac{150}{100} \times \frac{240}{1} = 360$$

Output for 1984 =
$$\frac{75}{100} \times \frac{240}{1}$$
 = 180

Therefore 360 - 180 = 180 more (AE)

Index at the start of 1979 = 123

Index at the start of 1980 with respect to inflation of 12%

$$= \frac{112}{100} \times \frac{123}{1}$$
$$= 137.76$$

The difference = 137.76 - 100

= 37.76

Approximately = 38 (E)

14. Brown's mileage for week 3 = 307

Brawn's mileage for week 4 = 752

Difference = 725 - 307

=418

Week 3 - 4(C)

15. W. German tourist visiting Austria = 7,369

French tourist visiting Austria = 368

Ration 7,369:368

20:1 (E)

16. Total average daily output for Galileo = 510, this represent crude oil only, which was 30% of the total output. The remainder = 70% which is water therefore the barrel of water produced

 $=\frac{70}{30} \times 510 = 1190 (E)$

17. Jennings due = N220.50k

Jennings mile = 630

Jennings rate = 220.50 **=** N0.35k

Brown received 5k per mile less

:-35k-5k=30k per mile for brown

For a distance of 490 covered by brown

 $= N490 \times N0.30k$

= N147.00(A)

18. In 1987 the quantity of apples = 10 tonnes

In 1987 the quantity of pears = 25 tonnes

i.e 35 - 10 = 25 tonnes

but the pears were sold for N385 per ton

 $= 25 \times 385 = N9625 (C)$

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Master Job Aptitude Test

Graphical and Data Analysis Test I 244

19. Capital for 1990 = N1,261,200

 $= 1.3 \times 1,261,200$

Turnover = 1,639,560

pre tax profit = N252,240

:-252,240 x 100%

1,639,560

=15% (E)

20. Operating cost for Neptune = 120

Exploration cost for Neptune = 12,000

Ratio of operation cost: Exploration cost

21. Total population of tourists visiting

Italy = 7708(690+1678+3500+1840)

Total population of the tourist nations

=390,000

 $= 7708 \times 100\%$ 390,000

$$= 1.976 = 2\%$$
 (AB)

22. Pears 25-10=15 tonnes

Apples

10 tonnes 15xN300=N4500

Pears Apples

N4500 = N450 per ton in 1983

23. Engineering 7094 : 362 19.6 :1 (B)

24. Coffee price index at start of 1975 = 100 Coffee price index at start of 1976 = 124

Different = 124 - 100 = 24

- 25. It takes a ferry from Calais to Dover 2hrs 30mins and it also takes a ferry from Boulogne to Dover 3hrs 15mins. The time difference between 1:45 and 4:00 is 2hrs 15mins, this time does not accommodate any of the two ferries to arrive Dover. (A)
- 26. 20,000 x 100% = 23.5%

85,000

(B)

IEC CAREER TRAINING NETWORK

Graphical and Data Analysis Test I 245

27. Live births in SPAIN = $38,600,000 \times 12.1 = 467,060$

Live births in ITALY =
$$\underline{57,100,00}$$
0 x 10.1 = $\underline{576,710}$
1000 $\underline{1,043,770}$

Ans: Approximately 1,044,000 (C)

- 1400 700 = 700 million (B)
- FRANCEAND ITALY (A)
- Insufficient information to solve the question (E)
- Total sales in November

Sub Standard: 10,000 x 2.85

Total sales in October

Sub Standard: 20,000 x 2.85

$$100 = N570$$

There was no change in the sales value of October and November. (E)

- The ratio of female to male in 1990 for Daily Echo newspaper is 12:10 which is the highest (D)
- 33. Live births in UK = $56,600,000 \times 13.3$ =752,7801000

Death in UK =
$$\underline{56,600,000}$$
 x 11.8 = 667,880

1000

Difference 84,900

Answer: 84,900 increase (B)

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Master Job Aptitude Test

Graphical and Data Analysis Test I 246

34. Due to production of sub standard buttons, total potential sales decreased

10,000 July 5,000 August 20,000 September October 20,000 10,000 November December 10,000

75,000 Sub standard buttons were produced and it was sold for half of the price.

l.e
$$\frac{75,000}{100}$$
 x 2.85 = N2137.50 (C)

35. 3.6 + 4.8 + 1.1 = 9.5 (C)

ITALY:

36. Number of people aged 60 or over at the start of 1985 in each country

GERMANY:
$$20 \times 61.0 = 12.2$$

SPAIN:
$$\frac{17}{100}$$
 X 38.6 = 6.562

Ans. Germany has the highest number of people (D)

37.
$$\frac{80}{100}$$
 x 1400 = 1120 (B)

FOR MORE ON THESE YOU CAN:

- Call 08059573412 and enquire for a CD on these topic
- Visit our website www.iecnetwork.com and download more questions and answers
- Attend our monthly seminar.
- Call 08033438062 for lecture arrangement at our office.

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Graphical Analysis Test II 247

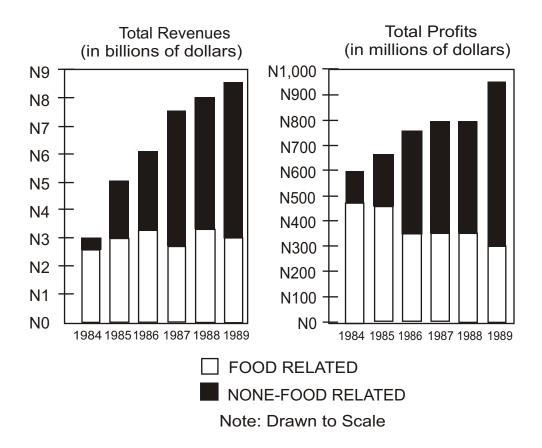
GRAPHICAL ANALYSIS TEST II

59 QUESTIONS 30 MINUTES

DIRECTIONS

Each of the following graphs is followed with questions consisting of five choices. Choose the correct answer and mark it on your answer

MEGACORP, INC. **REVENUE AND PROFIT DISTRIBUTION FOR FOOD - AND** NONFOOD-RELATED OPERATIONS, 1984 - 1989



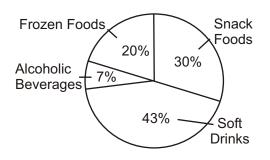
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Master Job Aptitude Test

Graphical Analysis Test II 248

PERCENT OF REVENUES FROM FOOD-RELATED **OPERATIONS IN 1989 BY CATEGORY**



Questions 1-5 are based on the following graphs.

- Approximately how much did total revenues increase from 1984 to 1987?
 - N0.5 billion
 - (B) N1.5 billion
 - (C)N4.0 billion
 - (D) N4.5 billion
 - N5.0 billion
- For the year in which profits from food
 - related operation increased over the previous year, total revenues were
 - approximately
 - N3.5 billion
 - (B) N4.5 billion (C) N5.7 billion
 - (D) N6.0 billion

 - N8.0 billion
- In 1988, total profits represented approximately what percent of Megacrop's total revenues?
 - 50% (A)
 - 20%
 - (B) (C) (D) (E) 10%
 - 5%
 - 1%

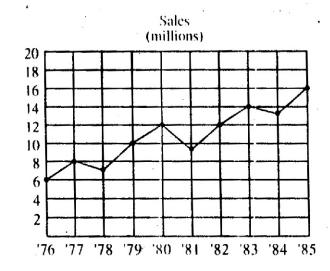
- For the first year in which revenues from nonfood-related operations surpassed N4.5 billion, total profits were approximately.
 - N250 billion
 - (B) N450 billion
 - (C) N550 billion
 - (D) N650 billion
 - (E) N800 billion
- In 1989, approximately how many millions of dollars were revenues from frozen food operations?
 - 1,700
 - (B) 1,100
 - (C) (D) 900
 - 600
 - (E) 450

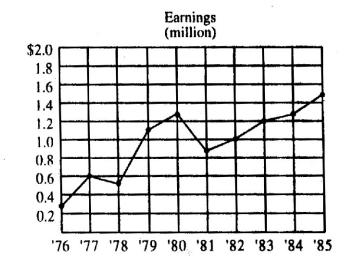
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Graphical Analysis Test II 249

Questions 6 - 10 are based on the following figure

SALES AND EARNINGS OF COMPANY K





- From 1977 to 1983, inclusive, what was the amount of the greatest increase in earnings from one year to the next?
 - N300,000
 - N600,000 (B)
 - (C) N750,000
 - (D) N1,000,000
 - (E) N1,200,000
- From 1980 to 1984 inclusive, in which year did sales change by the greatest percent over the previous year?
 - 1980
 - 1981 (B)
 - (C) 1982
 - (D) 1983
 - (E) 1984
- For the years 1981 to 1985, inclusive average earnings of Company K were approximately
 - N1,180,000
 - N998,000 (B)
 - (C) N920,000
 - N880,000 (D)
 - (E) N720.000

- From 1976 to 1985, earnings of Company K increased by what percent?
 - 150%
 - (B) 200%
 - (C) 233¹/₃%
 - (D) 400%
 - (E) 500%
- In how many of the years shown were earnings equal to or greater than 10 percent of sales?
 - 3
 - (B)
 - (C)5
 - (D) 6
 - (E) 7

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Graphical Analysis Test II 250

DEVELOPMENT LOANS....

at Fy: 1967 Program

Questions 11 - 13 refer to the following graph.

20 MAJOR COUNTRIES



SUPPORTING ASSISTANCE....



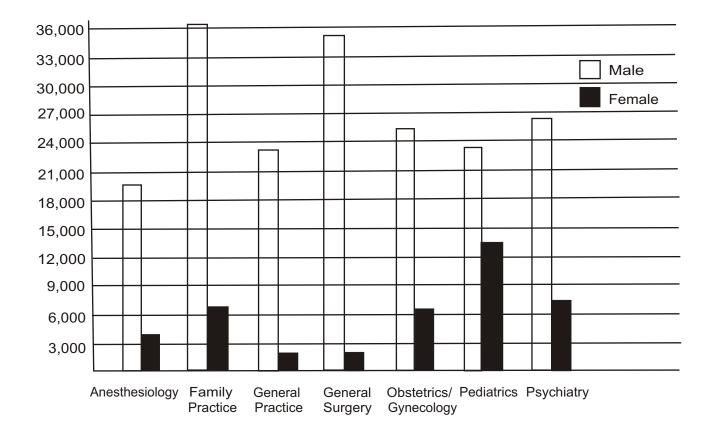
- If ND was appropriated for Development Loans for the (FY 1967) fiscal year 1967. assuming that each of the 8 countries received the same amount of money, what would the amount of the loan for Turkey have been?
 - (A) N.105D
 - (B) N.125D (C) N.84D
 - (D) N8.4D
 - (E) N12.5D
- For the (FY 1967) fiscal year 1967, 72 percent of the Supporting assistance was proposed for Vietnam. If the other four major recipients received the same amount of money under the program of the Agency of International Development, what percent of the entire amount would Korea have received?
 - (A) 1.4 (B) 1.75
 - 5.25
 - (C) (D) 8.25
 - (E) 14.4

- According to the data furnished, what percent of the proposed economic assistance would Brazil have received during the (FY 1967) fiscal year 1967?
 - 2.3
 - 9.2 (B)
 - (C) 10.5
 - (D) 12.8
 - (E) cannot be determined from the data furnished

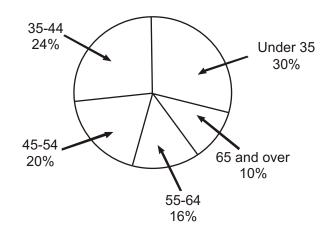
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Master Job Aptitude Test Graphical Analysis Test II 251

Questions 14 - 18 refer to the charts below NIGERIA PHYSICIANS IN SELECTED SPECIALTIES BY SEX, 1986



GENERAL SURGERY PHYSICIANS BY AGE, 1986



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Graphical Analysis Test II 252

- Approximately what percent of all general practice physicians in 1986 were male?
 - 23%
 - (A) (B) 50%
 - (C) 75%
 - (D) 82%
 - (E) 90%
- Which of the following physician specialties had the lowest ratio of males to females in 1986?
 - (A) Family practice
 - General surgery
 - (B) (C) (D) Obstetrics/gynecology
 - **Pediatrics**
 - (E) Psychiatry
- In 1986, approximately how many general surgery physicians were between the ages of 45 and 54, inclusive?
 - 5,440
 - (B) 6,300
 - (C)7,350
 - (D) 7,800
 - ÌΕ) 8,900

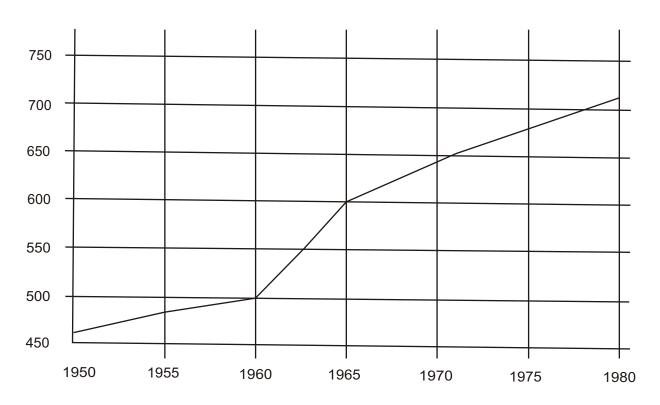
- If in 1986 all the family practice physicians represented 7.5 percent of all the physician in the Nigeria, approximately how many physicians were there total?
 - 300,000
 - 360,000 (B)
 - (C) 430,000
 - (D) 485,000
 - (E) 570,000
- If the number of female general surgeon physicians in the under 35 category represented 3.5 percent of all the general surgeon physicians, approximately how many male general surgeon physicians were under 35 years?
 - 9,200
 - (B) 9,800
 - (C) (D) 10,750
 - 11,260
 - (E) 11,980

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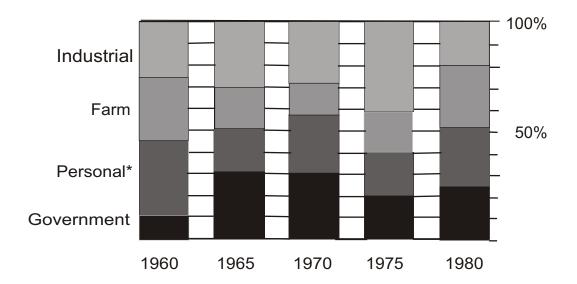
Graphical Analysis Test II 253

Questions 19 - 23 refer to the charts below

ENERGY USE BY YEAR, COUNTRY Y, 1950-1980 (in millions of kilowatt-hours)



ENERGY USE BY TYPE, COUNTRY Y



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Graphical Analysis Test II 254

- In which of the following years was the energy use in country Y closest to 650 million kilo-watt-hours?
 - 1960
 - (B) 1965
 - (C) 1970
 - (D) 1975
 - (E) 1980
- In 1965, how many of the categories shown had energy use greater than 150 million kilo-watt-hours?
 - (A) none
 - one
 - two
 - (B) (C) (D) three
 - 9e) four
- In which of the following years was industrial use of energy greatest in country Y?
 - 1960
 - (A) (B) 1965
 - 1970
 - 1975
 - (C) (D) (E) 1980

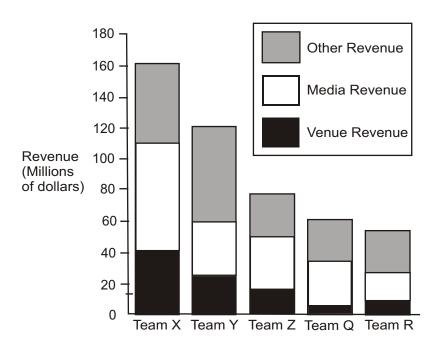
- If the population of country Y increased by 20 percent from 1960 to 1965, approximately what was the percent decrease in the per-capital personal use of energy between those two years?
 - 0%
 - (B) 17%
 - (C) 25%
 - (D) 40%
 - (E) it cannot be determined from the information given.
- 23. Which of the following can be inferred from the graphs?
 - Farm use of energy increased between 1960 and 1980
 - In 1980, industrial use of energy was greater than industrial use of energy in 1965
 - More people were employed by the government of country Y in 1980 than in 1960.
 - I only
 - (B) II only
 - I and II only
 - (C) (D) II and III only
 - (E) I, II and III

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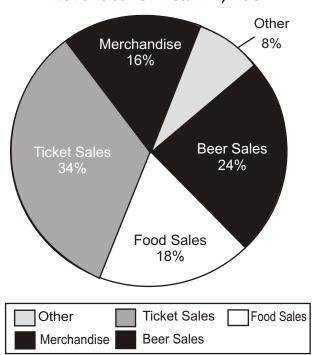
Master Job Aptitude Test Graphical Analysis Test II 255

Questions 24 - 27 refer to the following graphs

TEAM REVENUES FOR 1997



Percentages of Venue Revenues for Team X, 1997



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Graphical Analysis Test II 256

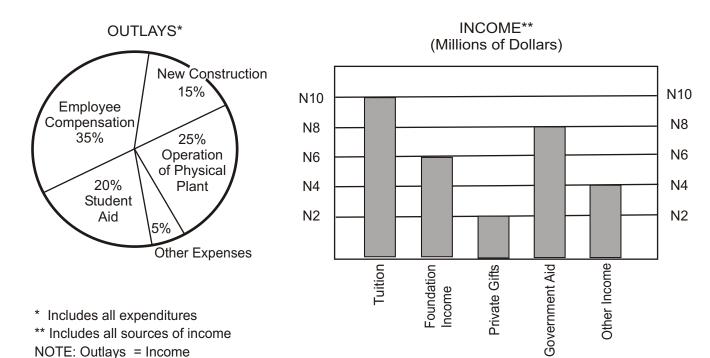
- For the team with the median amount of venue revenue for 1997, media revenue represented approximately what percent of that team's total revenue for that year?
 - (A) (B) (C) (D) 25%
 - 30%
 - 40%
 - 55%
 - (E) 60%
- Of the following, which is the closest to the amount of revenues, in millions of dollars, earned by Team X through food sales in 1997?
 - 7
 - 10
 - 14
 - 18
 - (A) (B) (C) (D) (E) 22

- Ticker sales represented approximately what percent of total revenue for Team X in 1997?
 - 4%
 - (B) 8%
 - (C) 13%
 - (D) 34%
 - (E) 54%
- If Team Y earned a total revenue of N150 million in 19 Team Y's total revenue increased by approximately which percent from 1997 to 1998?
 - 20%
 - (B) 25%
 - (C) 30%
 - (D) 35%
 - (E) 40%

IEC CAREER TRAINING NETWORK

Questions 28 - 30 are based on the following graphs

BUDGET INFORMATION FOR COLLEGE M IN YEAR N



- For the year shown, College M spent how much money on the operation of its physical plant?
 - N2,500,000
 - (B) N4,000,000
 - (C) N7,500,000
 - (D) N8,000,000
 - (E) N9,500,000
- For the year shown, what percentage of College M's income came from foundation income?

 - (B) 20%
 - (C) 25%
 - (D) 33%

60%

IEC CAREER TRAINING NETWORK

(E)

was spent by College M on employee compensation than on student aid? N16,500,000

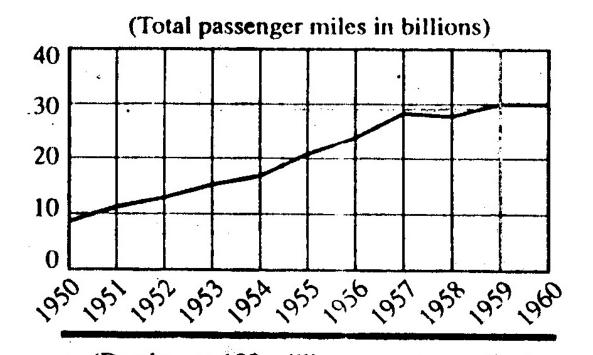
For the year shown, how much more money

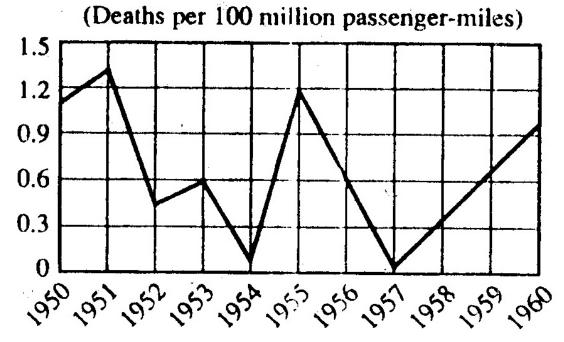
- N10,500,000
- (C) N6,000,000
- (D) N4,500,000 ÌΕ) N2,500,000

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Questions 31 - 35 are based on the following graphs

(Total passenger miles in billions)





Graphical Analysis Test II 259

- All of the following statement can be inferred from the information provided in the graphs EXCEPT:
 - The highest rate of passenger deaths per mile traveled during the period covered by the graphs occurred in 1951.
 - the largest yearly increase in deaths per mile traveled occurred in the period 1954 to 1955.
 - the rate of passenger deaths per mile traveled as approximately the same in both 1954 and 1957
 - total passenger miles traveled approximately tripled between 1951 and 1959
 - the percentage increase in deaths per 100 million passenger miles was constant for 1958, 1959 and 1960.
- In which year did the longest uninterrupted period of increase in the rate of passenger deaths per mile traveled finally end?
 - 1951
 - 1953 (B)
 - (C) 1955
 - (D) 1957
 - (E) 1960
- How many fatalities were reported in the year 1955?
 - 20 billion
 - (B) 1.2 billion
 - 240,000 (C)
 - (D) 2,000
 - (E) 240

- The greatest number of fatalities were recorded in which year?
 - 1960
 - (B) 1957
 - (C) 1955
 - (D) 1953 (E) 1951
- In which year did the greatest number of passengers travel by air?
 - 1960
 - (B) 1955
 - (C) 1953
 - (D) 1951
 - (E) cannot be determined from the information given.

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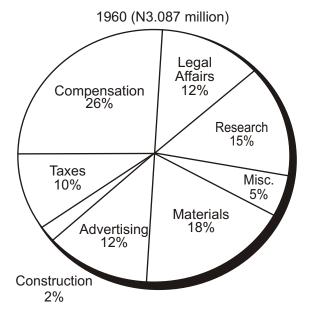
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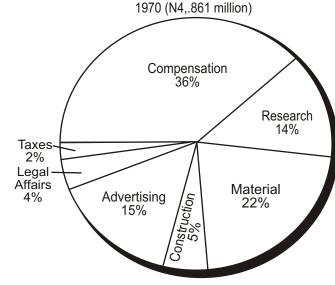
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Graphical Analysis Test II 260

Questions 36 - 38 refer to the following graphs

EXPENDITURES OF GENERAL INDUSTRIES





- The amount spent on materials in 1960 was 120% of the amount spent on
 - research in 1960 (A)
 - (B) compensation in 1960
 - (C) advertising in 1970
 - (D) materials in 1970
 - legal affairs in 1960
- The fraction of the total expenditure for 1960 and 1970 spent on compensation was about.
 - (A) (B) (C) (D) (E) 1/3
 - 1/4
 - 1/3
 - 3/7 1/2

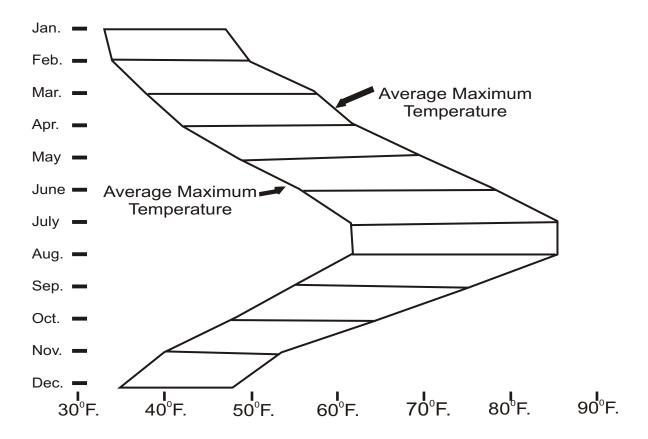
- The amount spent in 1960 for materials, advertising, and taxes was about the same
 - 5/4 of the amount spent for (A) compensation in 1960
 - the amount spent for compensation in 1970
 - (C) the amount spent on materials in 1970
 - 5/3 of the amount spend on advertising in 1970
 - (E) the amount spent on research and construction in 1970

IEC CAREER TRAINING NETWORK

Graphical Analysis Test II 261

Questions 36 - 38 refer to the following graphs

AVERAGE MONTHLY TEMPERATURES IN MADRID, SPAIN



- 39. Between which of the following months was the greatest change in average maximum temperature?
 - (A) January-February
 - (B) February-March
 - (C) march-April
 - (D) October-November
 - (E) November December

- 40. If the average maximum temperature of 20 days in September was 80°F, what was the average maximum temperature of the remaining 10 days (in degrees F)?
 - (A) 68° F
 - (B) 74°F
 - (C) 76°F
 - (D) 78°F
 - (E) 80°F

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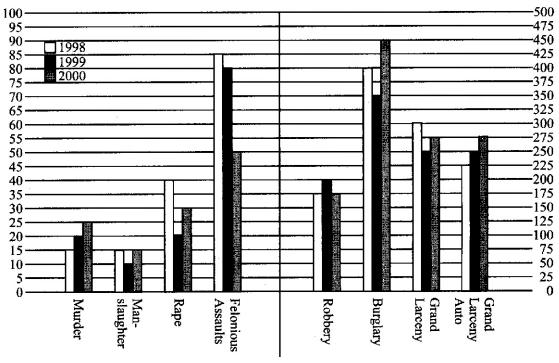
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Master Job Aptitude Test

Graphical Analysis Test II 262

Questions 41 - 44 refer to the following graphs

Yearly Incidence of Major Crimes for Community Z 1998-2000



- 41. In 2000, the incidence of which of the following crimes was greater than in the previous two years?
 - (A) grand larceny
 - (B) murder
 - (C) rape
 - (D) robbery
- 42. If the incidence of burglary in 2001 increase over 2000 by the same number as it had increased in 2000 over 1999, then the average for this crime for the four-year period from 1998 through 2001 would be most nearly.
 - (A) 100
 - (B) 400
 - (C) 425
 - (D) 440
- 43. The above graph indicates that the percentage increase in grand larceny auto from 1999 to 2000 was:
 - (A) 5%
 - (B) 10%
 - (C) 15%
 - (D) 20%

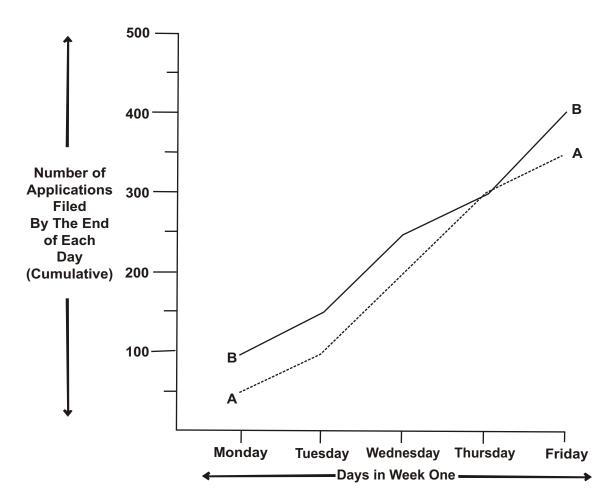
- 44. Which of the following cannot be determined because there is not enough information in the above graph to do so?
 - (A) for the three-year period, what percentage of all "Crimes Against the Person" involved murders committed in 1999?
 - (B) for the three-year period, what percentage of all "Major Crimes" was committed in the first six months of 1999?
 - (C) which major crimes followed a pattern of continuing yearly increases for the three-year period?
 - (D) for 2000, what was the ratio of robbery, burglary, and grand larceny crimes?

IEC CAREER TRAINING NETWORK

Graphical Analysis Test II 263

Questions 45 - 47 refer to the following graphs

In the graph below, the lines "A" and "B" represent the cumulative progress in the work of two file clerks, each of whom was given 500 consecutively numbered applications to file in the proper cabinets over a five-day work week.



- 45. The day during which the largest number of applications was filed by both clerks was
 - (A) Monday
 - (B) Tuesday
 - (C) Wednesday
 - (D) Friday
- 46. At the end of the second day, the percentage of applications still to be filed was
 - (A) 25%
 - (B) 50%
 - (C) 66%
 - (D) 75%

- 47. Assuming that the production pattern is the same the following week as the week shown in the chart, the day on which Clerk B will finish this assignment will be
 - (A) Monday
 - (B) Tuesday
 - (C) Wednesday
 - (D) Friday

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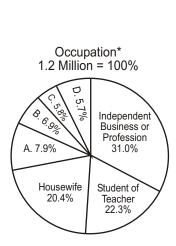
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Graphical Analysis Test II 264

Questions 48 - 51 refer to the following graphs

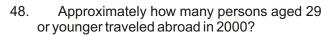
CHARACTERISTICS OF NIGERIA TRAVELERS ABROAD.....
BASED ON PASSPORT ISSUED AND RENEWED IN 2000



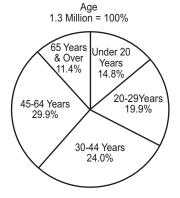
*Based on Nine Months Only A. Skilled, Clerical, Technical,

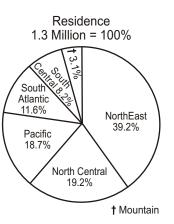
or Sales Workers

- B. Other
- C. Retired
- D. Civilian Government and Military



- (A) 175,000
- (B) 245,000
- (C) 385,000
- (D) 450,000
- 19. Of the people who did not live in the Northeast, approximately what percent came from the North Central states?
 - (A) 19.2%
 - (B) 19.9%
 - (C) 26.5%
 - (D) 31.6%





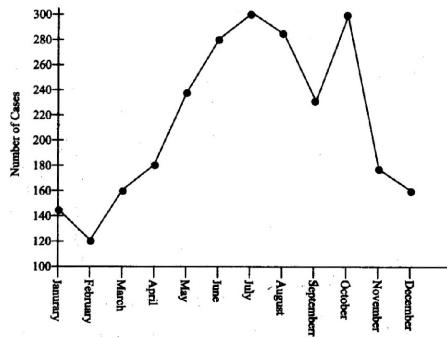
- 50. The fraction of travelers from the four smallest occupation groups is most nearly equal to the fraction of travelers.
 - (A) under age 20, and 65 and over, combined.
 - (B) from the North Central and Mountain states
 - (C) between 45 and 64 years of age
 - (D) from the Housewife and Other categories
- 51. If the South Central, Mountain and Pacific sections were considered as a single classification, how many degrees would its sector include?
 - (A) 30°
 - (B) 67°
 - (C) 108°
 - (D) 120°

IEC CAREER TRAINING NETWORK

Graphical Analysis Test II 265

Questions 52 - 57 refer to the following graphs

NUMBER OF CASES INVESTIGATED, BUREAU OF WELFARE, 2000



- In which month were approximately 270 cases investigated?
 - May (B)
 - June
 - (C) July
 - (D) August
- The total number of cases investigated during the first three months of the year was approximately.
 - 330 (A)
 - (B) 350
 - (C) 390
 - (D) 430
- Twelve clerks are assigned to enter certain data on index cards. This number of clerks could perform the task in eighteen days. After these clerks have worked on this assignment for six days, 4 more clerks are added to the staff to do this work. Assuming that all the clerks work at the same rate of speed, the entire task, instead of taking eighteen days, will be performed in
 - 9 days
 - (B) 12 days
 - (C) 15 days
 - 16 days

- Smith earns N7.20 per hour for a 40 hour week, with time and half for overtime hours. In a week in which he worked 46 hours, he earned.
 - N331.20 (A)
 - (B) N352.80
 - (C) N424.20
 - (D) N496.80
- In the Fahrenheit scale, the temperature that is equivalent to 50° Celsius is
 - 122° (A)
 - (B) 90°
 - (C) 160°
 - 87° (D)
- The circumference of a circle is 10π . The area of the same circle is
 - (A) 5π
 - (B) 10π
 - (C) 25π
 - (D) 100π

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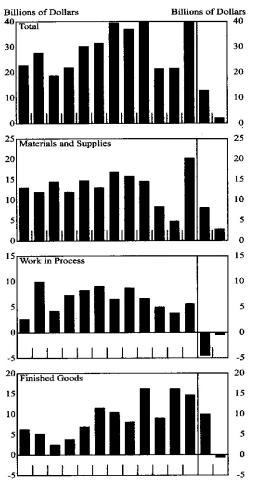
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Master Job Aptitude Test

Graphical Analysis Test II 266

Questions 58 - 59 refer to the following graphs

CHANGES IN MANUFACTURER'S INVENTORIES BY STAGE OF FABRICATION



- For how many months are materials and supplies inventories exceeding N15 billion at the same time that finished goods inventories are more than N11 billion? (Months January through December are represented by interval marks on the graph going from left to right).
 - (A) one
 - (B) two
 - three
 - (C) (D) four

- In June 1974, the ratio of finished goods to work in process was approximately.
 - 7:16
 - (B) 9:16
 - (C) 9:7
 - (D) 7:9

IEC CAREER TRAINING NETWORK

Master Job Aptitude Test	Graphical Analysis Test II 267
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ANSWER KEY

1.	D	11.	Α	21.	D	31.	Е	41.	В	51.	С
2.	Е	12.	С	22.	D	32.	Е	42.	D	52.	В
3.	С	13.	E	23.	Α	33.	Е	43.	В	53.	D
4.	E	14.	Е	24.	С	34.	Α	44.	В	54.	С
5.	D	15.	D	25.	Α	35.	Е	45.	С	55.	В
6.	В	16	С	26.	В	36.	С	46.	D	56.	Α
7.	С	17	Е	27.	В	37.	С	47.	Α	57.	С
8.	Α	18	В	28.	С	38.	D	48.	D	58.	В
9.	D	19	С	29.	В	39.	D	49.	D	59.	D
10	R	20	C	30	D	40	Δ	50	Δ		

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Master Job Aptitude Test

Graphical Analysis Test II 268

ANSWERS AND EXPLANATIONS

- (D) This question asks about total revenues, so you should refer to the left bar graph. The ttrickiest part is making sure you correctly extract information from the appropriate bars, in this case for 1984 and 1987. Total revenues for 1984 appear to be N3 million and for 1987 they appear to be about N7.5 million (if you're ever having trouble getting a fix on a quantity on a bar graph, place the edge of a piece of paper along the top of the bar to read the scale between). So the increase is roughly N7.5 billion N3 million = N4.5 billion.
- 2. (E) The wording is somewhat tricky here, and you have to refer to both bar graphs. First you have to refer to the right bar graph to find the one year in which food-related profits increased over the previous year- the only year in which the unshaded portion of the abr goes up is 1988. Now that you've zeroed in on the year, you must refer to the left bar graph to determine the total revenues for that year, which appear to be about N8.0 billion.
- 3. (C) This is percent question, so first you have to extract the information from the bar graphs. From the right bar graph, the total profits for 1988 appear to be N800 million; from the left bar graph, total revenues for that year appear to be N8.0 billion (i.e N8,000 million). Now you just have to convert the part/whole into a percent:

$$800 \text{ million} \\ 8,000 \text{ million} \\ \frac{1}{10} \\ = 10\%$$

- 4. (E) First you have to find the year for which revenues from nonfood-related operations surpassed N4.5 billion, so refer to the left bar graph. Finding the correct bar is made more difficult by the fact that you have to deal with the shaded portion, which is not grounded at N0. So you may want to make a ruler from a sheet of paper, using the scale to mark off the length represented by N4.5 billion, and using this to locate the appropriate bar. You should then be able to see that 1987 is the year in questions. The question asks for total profits, so once again refer to the right bar graph and you'll see the profits for that year are around N800 million.
- 5. (D) Finally you have a question that refers to the pie chart. You are asked about revenues from frozen food operations, and the pie, chart informs you that frozen foods represent 20 percent of all food-related revenues for 1989. To convert this into an amount you need to locate the amount of food-related revenues for 1989, so once again refer to the left bar graph where you' find the food-related revenues in 1989 were about N3 billion, or N3,000 million. 20 percent of N3,000 million is N600 million.

By using all of the techniques discussed above, you will be able to tackle the most difficult Quantitative questions. (You can brush up on all of your math by referring to the Math Reference Appendix in the back of this book). And now that you have the tools to handle the Quantitative section of the GRE, try the following set of practice questions. After that, we'll move on and take a look at the Analytical section of The test.

- 6. (B) The greatest increase occurred from 1978 to 1979. It was: 1979 Earnings 1978 Earnings = 1.1 0.5 = 0.6 million = N600,000
- 7. (C) This question asks about percent change, so use the "change over" strategy. To make the task Easier, try to work with the fractions you create directly and avoid changing them to percent.

IEC CAREER TRAINING NETWORK

Graphical Analysis Test I 269

(A)
$$\frac{1980 - 1979}{1979} = \frac{12 - 10}{10} = \frac{2}{10} = \frac{1}{5}$$

(B)
$$\frac{1981 - 1980}{1980} = \frac{9 - 12}{12} = \frac{3}{12} = \frac{1}{4}$$
(Decrease)

(C)
$$\frac{1982 - 1981}{1981} = \frac{12 - 9}{9} = \frac{3}{9} = \frac{1}{3}$$

(D)
$$\frac{1983 - 1982}{1982} = \frac{14 - 12}{12} = \frac{2}{12} = \frac{1}{6}$$

(E)
$$\frac{1984 - 1983}{1983} = \frac{13 - 14}{14} = \frac{1}{14}$$

(Decrease)

- 8. (A) Just calculate the average:
 - 10.9 + 1.0 + 1.2 + 1.3 + 1.50 5 = 5.9 5 = 1.18 = N1.180.000
- 9. (D) Since this question asks for percent change, use the "change over" strategy $\frac{1985 1976}{1976} = \frac{1.5 0.3}{0.3} = \frac{1.2}{0.3} = 4 = 400\%$
- 10. (B) If you try to solve this problem by writing out a calculation for each of the years, you'll run out of time before you can get halfway through. Instead, you should do the math in your head. You can find 10 percent of a number just by moving the decimal point one place to the left. Take 1976, for example. Ten percent of 6 million is 0.6 million, which is larger than 0.3 million, so in that year earnings were not equal To or greater than 10 percent of sales. Work your way quickly through the other years.
- 11. (A) Turkey received 1/8 of 84% or 10.5% of ND or N.105D
- 12. (C) 93% -72% = 21% 4 = 5.25%
- 13. (E) The graph gives no indication as to the individual distribution of aid.
- 14. E
- 15. D
- 16. C
- 17. E
- 18. B
- 19. C
- 20. C
- 21. D
- 22. D

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Master Job Aptitude Test

Graphical Analysis Test II 270

- 23. A
- 24. C
- 25. A
- 26. B
- 27. B
- 28. C
- 29. B
- 30. D Given a total budget of N.30 million and the distribution shown in the pie chart, the question is answered: 35% of N30 minus 20% of N30 = N4,500,000.
- 31. E
- 32. E
- 33. E
- 34. A
- 35. E
- 36. C
- 37. C
- 38. D
- 39. D Observe angle formed by line joining each of the two months indicated. Observe angle of October-November.
- 40. A According to the chart average for September = 76° F.

Sum of all 30 days = (30) (76°) = 2280°

Sum for 20 days of 80°F = 1600°

Difference (sum of remaining 10 days)

 $=680^{\circ}$

Average fro remaining days = 68°F.

41. The correct answer is (B). The incidence of murder increased from 15 in 1998, to 20 in 1999, to 25 in 2000.

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The correct answer is (D). The incidence of burglary in 1998 was 400; in 1999 it was 350; and in 2000 it was 450. The increase from 1999 to 2000 was 100. An increase of 100 from 2000 gives 550 in 2001.

The average of 400, 350, 450, and 550 is

$$\frac{400 + 350 + 450 + 550}{4}$$

$$= 1750$$

$$4 = 437.5$$

So the correct answer is (D), 440.

43. The correct answer is (B). The incidence of grand larceny auto went from 250 in 1999 to 275 in 2000, an `increase of 25. The percent increase is

- 44. The correct answer is (B). This graph gives information by year, not month. It is impossible to determine from the graph the percentage of crimes committed during the first six months of any year.
- 45. The correct answer is (C). For both A and B, the greatest increase in the commutative totals occurred from the end of Tuesday until the end of Wednesday. therefore, the largest number of applications was filed on Wednesday.
- 46. The correct answer is (D). By the end of Tuesday, a had filled 100 applications and B had filed 150, for a total of 250. This left 750 of the original 1,000 applications.

- 47. The correct answer is (A). During Week One, Clerk B files 100 applications on Monday, 50 on Tuesday, 100 on Wednesday, 50 on Thursday, and 100 on Friday, for a total of 400. On Monday of Week Two, he will fill numbers 401 to 500.
- 48. The correct answer is (D).

34.7% X 13 million = .4511 million = 451,100

So the correct answer is (D) 450,000.

49. The correct answer is (D) 100% - 39.2% = 60.8% did not live in Northeast. 19.2% lived in North Central.

 $\frac{19.2}{60.8}$ = .316 approximately

So the correct answer is (D) 31.6%

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Master Job Aptitude Test

Graphical Analysis Test II 272

50. The correct answer is (A) Four of the smallest groups of occupation:

$$7.9\% + 6.9\% + 5.8\% + 5.7\% = 26.3\%$$

Age groups under 20 and 65 and over:

51. The correct answer is (C)

South Central: 8.2%

Mountain: 3.1%

Pacific: 18.7%

30.0%

$$30\% \times 360^{\circ} = 108^{\circ}$$

- 52. The correct answer is (B). The dot for June lies between 260 and 280.
- 53. The correct answer is (D).

54. The correct answer is (C). The first 12 clerks complete 6/18, or 1/3 of the job in 6 days, leaving 2/3 of the Job to be completed. One clerk would require 12 X 18 = 216 days to complete the job, working alone. Sixteen clerks require 216 ÷16, or 131/2 days for the entire job. But only 2/3 of the job remains. To do 2/3 of the job, 16 clerks require:

$$\frac{2}{3}$$
 $X_{13}\frac{1}{2} = \frac{2}{3}$ $X = \frac{27}{2}$

The entire job takes 6 days + 9 days = 15 days.

55. The correct answer is (B). Smith worked 46 - 40 hours = 6 hours overtime. For each overtime hour he earned:

$$1\frac{1}{2}$$
 X 7.20 = N10.80

56. The correct answer is (A). The formula for changing Celsius to Fahrenheit is:

$$F = \frac{9^{\circ}C}{5} + 32$$

$$F = \frac{9}{5} \times 50 + 32$$

$$F = 90 + 32 = 122$$

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Graphical Analysis Test II 273

The correct answer is (C). If the circumference of a circle is 10π , its diameter is 10 and its radius is $10 \div 2$,

 $=\pi r^2$ The area of a circle $=\pi \times 5^{2}$ $= 25\pi$

The correct answer is (B). For this graph, it helps to visualize each bar as representing a calendar month Finished goods inventories are more than N11 billion in June, September, November, and December of 1974. Of those months, materials and supplies inventories are more than N15 billion in September, and December.

The correct answer is (B), two.

59. The correct answer is (D). In June 1974, finished goods inventories were approximately N7 billion, and work in process inventories were approximately N9 billion. The ratio is 7:9.

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- Call 08059573412 and enquire for a CD on these topic
- Visit our website www.iecnetwork.com and download more questions and answers
- Attend our monthly seminar.

 Call 08033438062 for lecture arrangement at our office.

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Master Job Aptitude Test

Graphical and Data Analysis Test III 274

GRAPHICAL AND DATA ANALYSIS TEST III

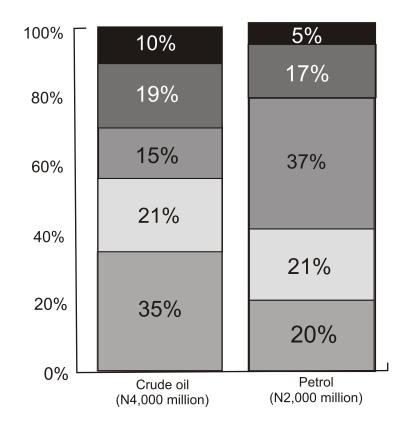
31 QUESTIONS **20 MINUTES**

INSTRUCTIONS

In the test you will be using facts and figures presented in various statistical tables to answer questions designed to assess your ability to evaluate numerical data.

In each question, you are given either five or ten options to choose from. One and only one, of the options is correct in each case. Note that for questions which have 10 options, you may have to fill in more than one circle to indicate your answer. For example, for a question for which you thought the right answer was 'AC' you would fill in both circle A and circle C.

REGIONAL OIL SALES: TEQUENTAL & PARNOL



Rest of the World Rest of Asia ■ Kuwait ■ Nigeria Libya

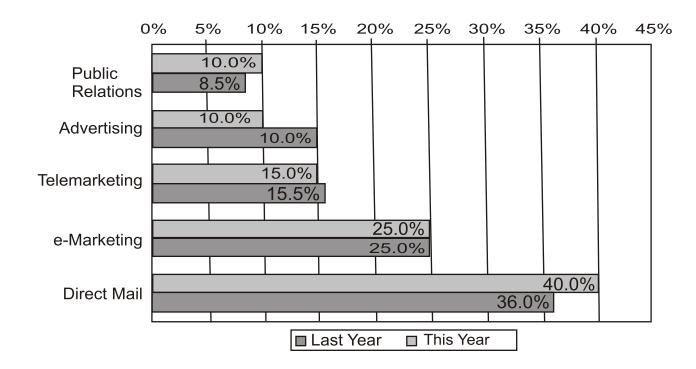
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Master Job Aptitude Tes	Master	Job A	Aptitu/	ude	Test
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Graphical and Data Analysis Test III 275

ORDERS PLACED WITH DELTA ENGINEERING									
Unit Order	Turbine Blade	Gyroscope	Undercarriage Piston						
Texaco Chevron AP Shell Mobil Price per unit (£)	0 18,500 2,450 8,700 13,200 £425	15 45 6 21 0 £21,500	0 200 30 84 145 £295						
EXCHANGE RATES FOR S	TERLING()								
One Pound (£) = Euro Japanese Yen US Dollar	1 - January 1.50 191.47 1.65	1-April 1.52 175.81 1.61	1 - July 1.58 163.33 1.60						

RECHARGE CARD MARKETING CHART



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Master Job Aptitude Test

Graphical and Data Analysis Test III 276

Graduate & Non - Graduate Employment Profiles for FCT ABUJA

Employment Sector	Graduate	Non-graduate	
Business Services	735,000	108,000	
Public Administration	525,000	108,000	
Education	294,000	117,000	
Telecommunication	315,000	162,000	
Self-employed	210,000	198,000	
Other	21,000	207,000	
Total	2,100,000	900,000	

IEC RETAIL OUTLETS: WEEKLY SALES BY LOCATION

Location	Under N50,000	N50,000 to N99,999	N100,00 to N149,999	N150,00 to N199,99	N200,000 and over	Totals
City	3,316	2,843	1,896	948	474	9,475
Mall	158	316	633	949	1,107	3,163
Totals	3,474	3,159	2,258	1,896	1,581	12,638

SONY ENTERPRISES FINANCIAL INFORMATION

	Year 1	Year 2	Year 3
Turnover (Nm*)	11.4	10.6	8.5
Income (Nm*)	9.2	3.1	1.1
Assets (Nm*)	42.3	28.7	32.6
Debt (Nm*)	9.7	6.5	17.8
Profit Margin (%)	80.70	29.25	12.94
Share Price (kobo)	108.0	85.6	56.6
Number of Shares			
(m*)	50	50	50

*m = millions

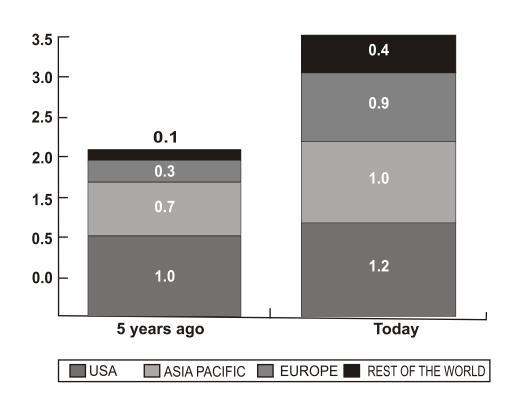
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Graphical and Data Analysis Test III 277

DEMOGRAPHIC AND INFRASTRUCTURE INFORMATION

	Accra	Lome	Lagos
Population (m)	59.4	168	1,023
GNP (in USA \$m)	1,129,000	485,00	265,000
Economically Active Pop. (%)	49.8	42.7	37.3
Urban: Rural Pop. (%)	90.6 : 9.4	74.3 25.7	26.1:73.9
Telephone (m)	29.20	12.30	8.44
Vehicle - Cars (m)	21.2	15.3	2.5
Vehicles-Trucks & Buses (m)	3.1	1.7	1.5
Total Road Length (m of km)	0.38	1.7	2.1
m = millions			

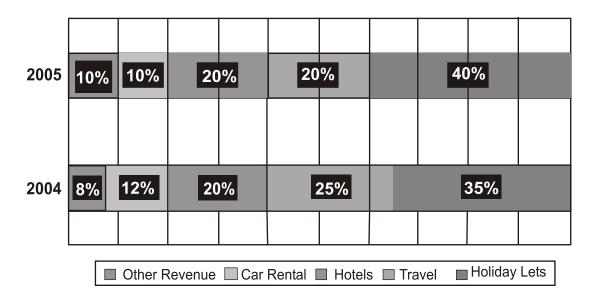
ANNUAL AIR TRAFFIC (1,000 million of passengers)



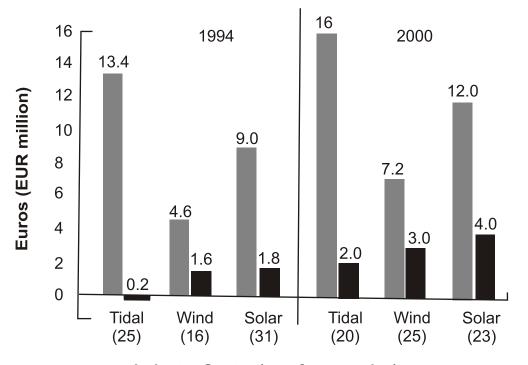
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Graphical and Data Analysis Test III 278

SKG Leisure Revenue Comparisons



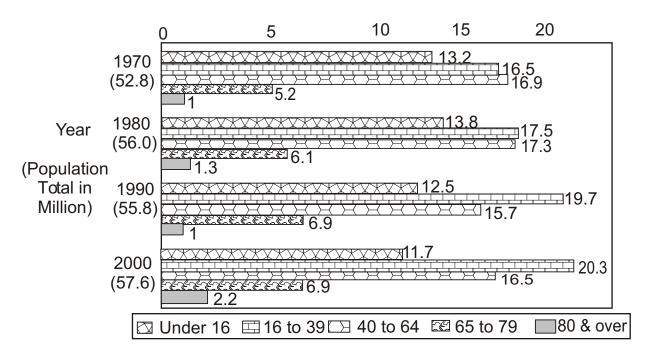
Greenco Subsidiaries



Industry Sector (no of companies)

Graphical and Data Analysis Test III 279

POPULATION AGE DISTRIBUTIONS BY YEAR



Population in Million

Operating Performance for International Paper Goods (IPG)

(EUR million)	1995	1996	1997	1998	1999	2000
Net sales	1,600	2,158	2,568	2,375	2,508	2,709
Cost of goods sold	1,089	1,487	1,661	1,508	1,568	1,716
Sales margin	511	671	886	867	922	993
Fixed costs	289	411	582	578	592	596
Operating cash flow	222	260	304	289	331	397

Master Job Aptitude Test

Graphical and Data Analysis Test III 280

Production Costs by Product Line and Month

		Jun	Jul	Aug	Sept.	Oct.	Average cost per unit of production (\$)
Line	Units Produced*	201	433	505	774	775	\$0.62
A	Machines Employed	25	26	37	38	40	
Line B	Units Produced*	308	608	677	722	895	\$0.54
	Machines Employed	35	87	92	93	106	
Line	units Produced*	214	336	935	990	1,109	\$0.45
	Machines Employed	50	87	165	184	187	
	* in 000's						

Today's Exchange Rates* for the Bhutanese Ngultrum

	Closing Point	Today's High	Today's Low	Change on Day	World Bank Index
Sterling	70.72	71.06	68.70	+0.42	68.00
US Dollar	43.52	45.16	43.52	-0.08	43.14
Euro	46.61	48.57	44.93	+1.68	44.28
Yen	0.40	0.43	0.38	-0.03	0.38

^{*}Rates are number of Ngultrum per stated currency

Graphical and Data Analysis Test III 281

RENTAL YIELDS

Rental		Industrial	Commercial	Private
A	M² for rent	483	482	664
	occupancy	70%	80%	90%
	Value per m²	525	840	1,680
В	m² for rent	457	545	718
	occupancy	63%	72%	81%
	Value per m²	683	1,892	2,184
С	m² for rent	444	600	965
	occupancy	56%	64%	72%
	Value per m²	735	1,176	2,352
D	m² for rent	442	679	1,095
	occupancy	42%	48%	54%
	Value per m²	788	1,260	2,520
E	m² for rent	439	782	1,213
	occupancy	49%	56%	63%
	Value per m²	849	1,344	2,688

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Master Job Aptitude Test Graphical and Data Analysis Test III 282

Question 1

The amount of Crude oil sales in the Rest of the World is forecast to rise at 20% per year, while the amount of Crude oil sales in Kuwait is expected to remain constant. How long will it take for Crude sales in the Rest of the world to exceed those in Kuwait?

Α	В	С	D	E
1 years	2 years	3 years	4 years	5 years

Question 2

Approximately what percentage of all Crude oil and petrol sales (in N) is in the Kuwait market?

Α	В	С	D	E
20%	22%	24%	26%	none of these

Question 3

If AP agreed the price of their Gyroscope order in Sterling on 1 January and paid on 1 April, what would be the cost difference, in Japanese Yen, if paid on 1 April rather than 1 January?

Α	В	С	D	E
22,676,490	2,020,140	1,120,080	22,020,140	22,676,490

Question 4

If sales from e-marketing grew by 50% this year compared to last year, and e-Marketing totalled 60,000 sales last year, how many sales did Telemarketing generate this year?

A	В	С	D	E
30,600	54,000	55,800	90,000	129,600

Question 5

If Chevron increased their Unit Order of Turbine Blades by 7%, approximately how much would they need to pay for Turbine Blades?

Α	В	С	D	E
N3,580,000	N5,102,000	7,348,000	N8,413,000	N13,226,00

Question 6

Approximately what percentage of graduates and non-graduates are self-employed?

Α	В	С	D	E
10%	14%	17%	22%	23%

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Master Job Aptitude Test Graphical and Data Analysis Test III 283

Question 7

What is the approximate percentage of total weekly sales under N100,000?

A B C D E 1% 26% 27% 52% 72%

Question 8

What would the Turnover be in Year 4 if it continued to decrease at the same rate as between Year 2 and Year 3?

A B C D E N6.1m N6.4m N6.8m N7.1m N8.5m

Question 9

If 90% of cars in Lagos are owned by urban dwellers, what percentage of urban dwellers own cars (assuming a maximum of one car per person)?

A B C D E 0.22% 0.84% 1.28% 22% 60%

Question 10

What is the approximate ratio of Malls to the total number of Outlets?

A B C D E 1:4 1:2 2:1 3:1 4:10.

Question 11

If the number of graduates employed in Telecommunication is forecast to decline by 20% year-on-year while the number of non-graduates is forecast to remain the same, how many years will it take for non-graduate employees to out number graduate employees in Telecommunication?

A B C D E 1 2 3 4 5

Question 12

What is the approximate ratio of the number of telephone in Lagos to the number of telephone in Accra?

A B C D E 1:5 2:5 2:7 4:9 1;2

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Question 13

If the price of Turbine Blades increase to N435, what will the percentage increase be on the cost of the Shell Turbine Blade order?

A B C D E 0.01% 0.02% 1.20% 2.35% 12.18%

Question 14

If the number of graduates employed in Education remains the same while the number of non-graduates increase by 15% per year, how many years will it takes for the number of non-graduates to exceed the number of graduates employ in education?

A B C D E 3 4 5 6 7

Question 15

If Other Revenue grew by 50% to 1.26m in 2005, approximately how much revenue did Holiday Letting generate in 2004?

A B C D E
1.05m Euros 1.26m Euros 2.52m Euros 2.63m Euros 3.68m Euros

Question 16

What was the average annual percentage growth in Net Sales for 1999 and 2000?

A B C D E 3.2% 4.4% 5.6% 6.8% 7.9%

Question 17

In 1990, how many people were aged between 16 and 79?

A B C D E 35.4m 42.3m 43.3m 45.9m 49.5m

Question 18

The average distance flown per passenger departing within Europe 5 years ago was 1,000km. Today this figure has decreased by 20%. By how many percent has the total distance travelled by flights departing in Europe changed today?

A B C D E 30% decrease 15% decrease no change 120% increase 140% increase

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Question 19

What was the average cost per machine employed across all three lines in June?

A B C D E \$875 \$3,520 \$3,537 \$4,752 \$4,985

Question 20

What was the approximate average production cost per machine employed by Line B in October?

A B C D E \$57 \$4,559 \$8,443 \$483,300 \$51,229,800

Question 21

Which private rental area generated the highest total revenue?

 A
 B
 C
 D
 E

 Area A
 Area B
 Area C
 Area D
 Area E

Question 22

If the exchange rate for Yen decreases by the same amount of Ngultrums tomorrow as it did today, how many Ngultrums would 30,000 Yen buy?

A B C D E 10,700 10,800 10,900 11,000 11,100

Question 23

If the increase in global passenger air traffic continues at the current rate, approximately how many annual air passengers (millions) will there be in 5 years time?

A B C D E 5,830m 53,900m 58,300m 539,000m none of these **Question 24**

What is the percentage increase in global passenger air traffic over the last 5 years?

A B C D E 37% 47% 57% 67% none of these

Question 25

If the revenue for Car Rental in 2004 was half that for Hotels in 2005 when Holiday Lettings accounted for N5.04m what was the revenue from Hotels in 2004?

A B C D E
0.84m Euros 1.05m Euros 1.26m Euros 2.10m Euros 2.52m Euros

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Question 26

Expressing Sales Margin as a percentage of Net Sales, what was the change in this percentage from 1997 to 1998?

A B C D E 2% drop 1% drop No change 1% rise 2% rise

Question 27

In 1980, what percentage of the population was 65 or older?

A B C D E 11.7% 12.5% 13.2% 14.0% 14.8%

Question 28

What was the difference in average cost per machine employed between Line A and Line C in August?

A B C D E \$22 \$51 \$5,912 \$430,000 \$107,650

Question 29

How many more Ngultrums could 20,000 Euros buy at peak exchange rate than at Closing Point?

A B C D E 29,300 37,300 39,200 72,800 85,800

Question 30

Approximately what percentage of the total commercial revenue across all rental areas did area A contribute?

A B C D E 4% 10% 12% 15% 17%

Question 31

How many more Euros Operating Profit did Greenco generate per Tidal company in 2000 than in 1994?

A B C D E EUR 54,000 EUR 108,000 EUR 216,000 EUR 432,000 None of these

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ANSWER KEY

1.	С	11.	С	21.	Е	31.	Ε
2.	В	12	С	22.	E		
3.	В	13.	D	23.	Α		
4.	В	14.	E	24.	D		
5.	D	15.	E	25.	D		
6.	В	16.	D	26.	E		
7.	D	17.	В	27.	С		
8.	С	18.	Е	28.	С		
9.	В	19.	В	29.	С		
10.	В	20.	В	30.	В		

FOR MORE ON THESE YOU CAN:

- Call 08059573412 and enquire for a CD on these topic
- Visit our website www.iecnetwork.com and download more questions and answers
- Attend our monthly seminar.

 Call 08033438062 for lecture arrangement at our office.

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ANSWERS AND EXPLANATIONS

1. C

Rest of the world =
$$\frac{10}{400}$$
 x \$4,000m = \$400m

Kuwait of the world =
$$\frac{15}{100}$$
 x \$4,000m = \$600m

Year 1 20% increase in the rest of the world =
$$\frac{120}{100}$$
 x 400 = 480

Year 2 20% increase in the rest of the world
$$= \frac{120}{100} \times 480$$
 $= 576$

Year 3 20% increase in the rest of the world
$$= 120 \times 576$$

 $= 691.2$

:-691.2 > 600 Answer = 3 years

2.

Kuwait Crude oil =
$$\frac{15}{100}$$
 x 400m = 600m

Kuwait Petrol =
$$\frac{37}{100}$$
 x 2000m = 740m

Total =
$$600m + 740m = 1340m$$

:-
$$\frac{1340}{6000}$$
 x 100 = 22.3% 22%

3. В

Cost in £ sterling $=6 \times 21,500 = 129,000$ Conversion to Japanese year in Jan 1 $= 129,000 \times 191.47$

= 24,699,630

Conversion to Japanese year in April 1 $= 129,000 \times 175.81$ = 22,679,490

Difference =2,020,140

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Last year sales for E-marketing = 60,000

This year

 $= 150 \times 60,000$ 100

= 90,000

:- 100% of total sales

 $= 100 \times 90,000$

= 360,000 this the total sales.

Telemarketing sales this year

 $= 15 \times 360,000$ 100

= 54,000

5. D

7% increase in unit order

 $= 107 \times 18,500$

100

= 19,795

 $= 19,795 \times 425$ = 8,412,875

8.413,000

6.

Self employed Graduates Self employed Non-Graduates = 210,000 = 198,000

Total

= 408,000

Total number of the students

= 2,100,000 + 900,000

= 3,000,000

:- 408,000 x 100

3,000,000

= 13.6

= 14%

7. D

=3,474 + 3,159 = 6,633Total sales

=6,633 x 100 Percentage

12,638 = 52%

С 8.

Difference in Year 2 turnover to year 3

=10.6 - 8.5 = 2.1

Percentage decrease $=2.1 \times 100$

10.6

= 19.81%

Decrease at this rate for year 4

 $= 100 - 19.81 \times 8.5$

100

= N6.8m

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9.

Population of Urban dwellers

$$=$$
 $\frac{26.1}{100}$ x 1023

= 267.003

90% of cars $= 90 \times 2.5$ 100

= 2.25

Since one car per person, therefore

$$= \frac{2.25}{267.003} \times 100$$
$$= 0.84\%$$

10. В

Total no of mails = 3.163Total no of outlets = 12,638

Year 2 20% decline

Rate =
$$\frac{3,163}{12,638}$$

= 1:4

11.

Year 1 20% decline $= 80 \times 315,000$ =252,000100

> = <u>80</u> x 252,000 = 201,600

Year 3 20% decline $= 80 \times 201,600$ = 161,200

> :- 161,200 < 162,000 = 3 years.

100

12. С

> Number of telephones in Lagos = 8.44 Number of telephones in Accra = 29.20

= 8.44 : 29.20 ratio

Approximately 7:2

13.

Shell order = 8,700

Total cost = 8,700 x 425 =3,697,500Increment = 8,700 x 435 =3,784,500

Difference 87,000

Percentage increase $= 87,000 \times 100$ 3,697,500

= 2.35%

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Graphical and Data Analysis Test III 291

```
14.
```

Year 1 15% increase $= 115 \times 117,000$ 100

= 134,500

Year 2 15% increase $= 115 \times 134,500$

100

= 154,732.5

Do this to the 6th year

Year 7 15% increase 115 x 270.20

=310,7875

310,7875 > 294,000

:- Answer = 7 years

15.

Let the other revenue generated in 2004 = Nxm

:-150% of Nxm = N1.26m

X = N1.26m

15

X = N0.84m

8% = N0.84m (Other revenue generated in 2004)

35% = ? (Holiday letting generated in 2004)

$$? = \frac{\text{N0.84m} \times 35}{8} = \text{N3.675m}$$

Approx. N3.68m

16.

% growth in net sales in 1999

 $= \frac{N2508m - N2375m}{100\%} \times 100\% = 5.6\%$

N2375m

% growth in net sales in 2000

 $= \frac{N2709m - N2508m}{100\%} \times 100\%$

N2508m

Average = 5.6% + 8% = 6.8%

Population of people between 16 and 79 in 1990

= (19.7 + 15.7 + 6.9)m

=42.3m

В

18.

17.

300m passengers departed Europe 5 yrs ago

Total distance for 300m passengers = 300m x 1000km

=300,000km

20% decrease in distance traveled today = 80% of 1000km

= 800 km

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900m passengers departed Europe today

:- Total distance for 900m passengers today = 900m x 800km

% increase =
$$\frac{720,000 \text{km} - 300,000 \text{km}}{300,000 \text{km}} \times 100\%$$

= 140%

Cost of production for each line in June

Line A = 201,000 x N0.62 = N124,620 Line B = $308.000 \times N0.54 = N166.320$

Line $C = 214,000 \times N0.45 = N96,300$

Total N387,420

Average =
$$\frac{N387,420}{110}$$

20. В

19.

В

Machine employed

$$\frac{895,000 \times N0.54}{106} = N4,559$$

21. E

Rental for each Area = % occupancy x value

Area A = 90% of 664 x 1680 = 1,003,968

Area B = 81% of 710 x 2184 = 1,256,018

Area C = 72% of $965 \times 2352 = 1,634,169$

Area D = 54% of 1095x2520 = 1,490,076

Area E = 63% of 1213x2688 = 2,054,142

Highest Area is E

22.

Yen decreased by 0.03 as at today

i.e (0.43 - 0.4)

:- New rate =
$$0.4 - 0.03 = 0.37$$

$$=0.37 \times 30,000$$

= 11,100

23. Α

% increase from 5 years ago to today

= 66.7%

In 5 years time, there will be 66.7% increase

:- 166.7% of 3,500m = 5,834.5m

Approx. = 5,830m

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```

Graphical and Data Analysis Test III 293

```
24. D
% increase = \frac{\text{difference}}{\text{original}} x 100%
= \frac{3,500\text{m} - 2,100\text{m}}{2,100\text{m}} x 100%
= 66.7\%
Approx. 67%
```

25. D

If 40% (Holiday lets) = N5.04m
:- 20% (Hotels) =
$$\frac{N5.04m}{2}$$

= N2.52m

:- car rentals in 2004 = 1/2 of N2.52m = N1.26m 12% (car rental) = N1.26m 20% (Hotel) = ?

? = N1.26m x 20

= N2.1m

26. E

% of sales margin to Net sales in 1997

= <u>886</u> x 100% 2568

=34.5%

% of sales margin to net sales in 1998

$$=\frac{867}{2375}$$
 x 100%

= 36.5%

Net effect = 2% increase

27.

Total population in 1980 = (13.8 + 17.5 + 17.3 + 6.1 + 1.3)m

= `56m

Population aged 65 or older = (6.1 + 1.3)m = 7.4m

 $\% = \frac{7.4 \text{m}}{56 \text{m}} \times 100\%$

= 13.2%

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28. C
Line A =
$$\frac{505,000}{37}$$
 x N0.62

= N8462

Line B = $\frac{935,000}{165}$ x N0.45

= N2550

Difference = N8462 - N2550

= N5912

29.

 $20,000 \,\text{Euros} \,\text{at peak rate} = 20,000 \,\text{x} \,48.57$

971,400

20,000 Euros at closing rate = $20,000 \times 46.61$

932,200

Difference = 971,400 - 932,200

39,200

30. D

Commercial revenue for each area

Area A = 80% of 482×840 = 323,904Area B = 72% of 545×1892 = 742,420Area C = 64% of 600×1176 = 451,584Area D = 48% of 679×1260 = 410,659Area E = 56% of 782×1344 = 588,564Total = 2,106,547

% of Area A's contribution

31. E

Profit per tidal company =
$$\frac{(16 + 2.0)}{20}$$
m = 0.9m

19994

Profit per tidal company =
$$\frac{(13.4 - 0.2)m}{25}$$
$$= 0.528m$$

Difference = 900,000 - 528,000 = 372,000

e.

None of the above options

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PART FOUR

IQ AND SPATIAL ORIENTATION TESTS

Relevant for all company tests. Study this section carefully.

IEC MONTHLY SEMINAR

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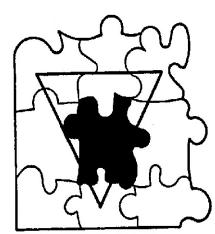
IQ TEST

75 QUESTIONS 20 MINUTES

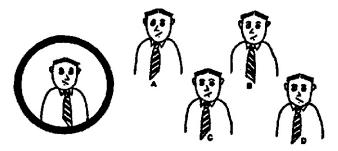


You have 20 minutes to answer the 75 questions. Do not exceed this time limit. Answer all questions. If a question seems to have more than one answer or not correct at all, what you consider to be the best of the choices give. These questions are purposely designed to test ability to think and reason.

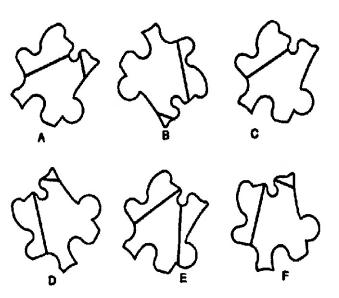
1. Here is part of a jigsaw puzzle on which a triangle is marked. Which is the missing piece?

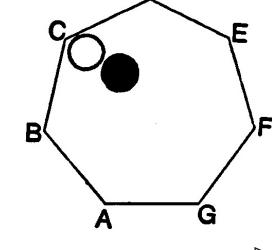


2. Whose face is in the mirror?



- 3. The black ball moves one position at a time clockwise. The white ball moves two positions at a time counter-clockwise
 - (A) In how many moves will they be together again?
 - (B) In which corner will they be when they meet?





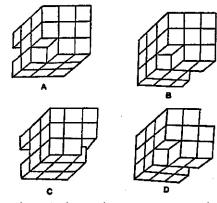
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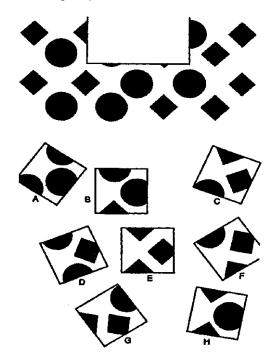
IQ Test 297

4. Imagine that blocks x and y are removed from the arrangement below, and that the remaining shapes is turned upsidedown. Which of the other shapes will result?

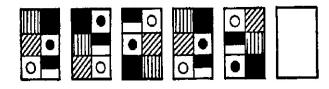


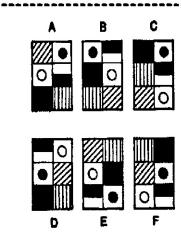


5. A closet has been removed from a room, leaving a space on the floor with no carpet. The rest of the floor is carpeted, and fortunately there are some pieces of carpet left over. Which two pieces will fit the empty space and exactly match the existing carpet?

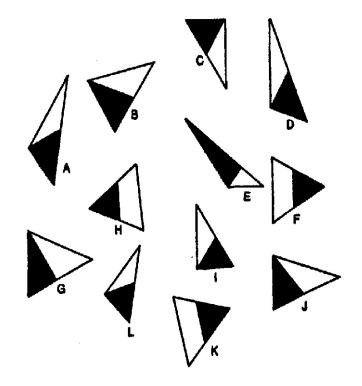


6. Which of the designs at the bottom should occupy the empty space?

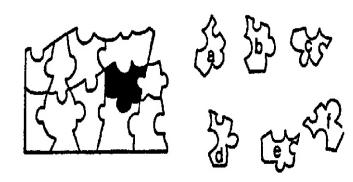




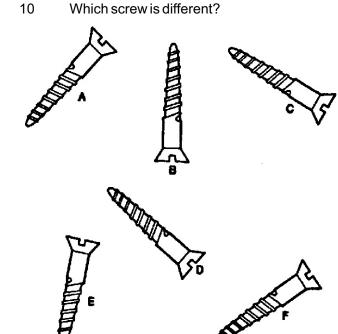
7. Arrange these into four pairs:



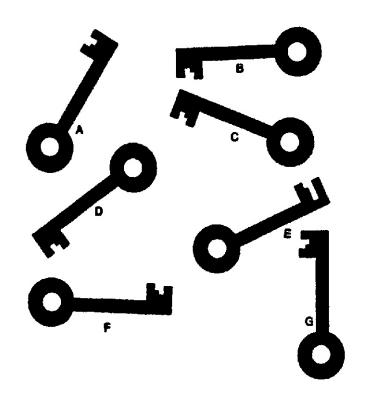
8. Which piece completes the jigsaw puzzle?

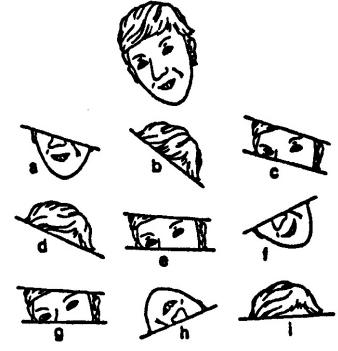


9. Six of these keys will open the door. Which one won't?



11. Which three pieces below will make the face above?





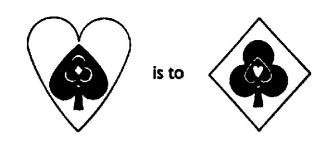
Master Job Aptitude Test

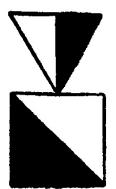
14. Give values for A, B, C, and D

IQ Testl 300

12.

If this design were turned ninety degrees counter-clockwise and held in front of a mirror, which of the design below would be reflected?







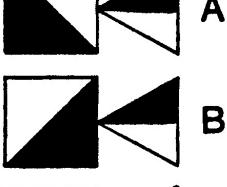
is to

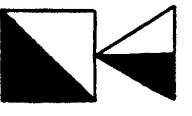




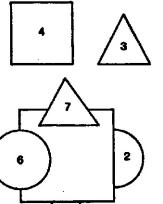


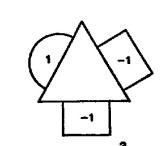


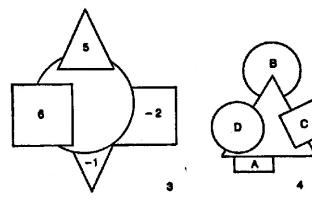




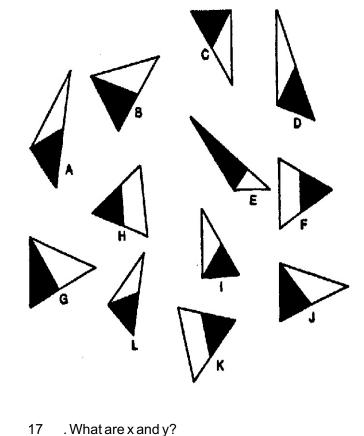






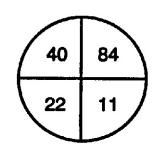


16. Which triangle is wrong?



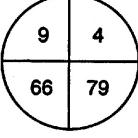
15. What are x and y?

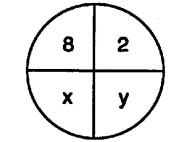
16	24
7	5

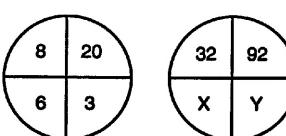


'	/ 32	92
7	X	Y

28



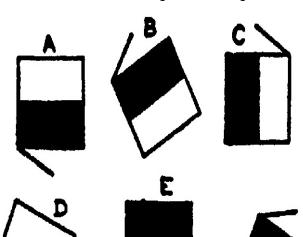




Master Job Aptitude Test

IQ Test 302

18. Which one of these figures is wrong?



20. Complete the final square:



824 365

713 582



JVF WCJ



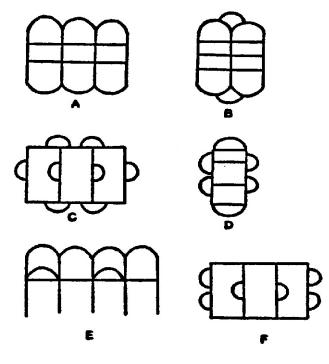


W6Y 5W4

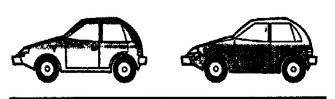


Which one is wrong?

19. Which is the odd one out?



Assuming that the top two cars are correct, which of those below are wrong?





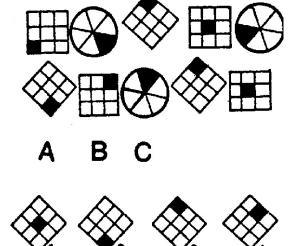




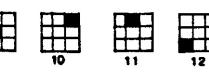


23. If PIG is Dand DOG is B, what is this? <u>CAT</u>

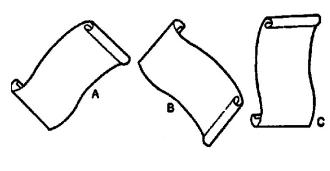
Which of the numbered figures at the 24. bottom should take the place of A, B, and C?

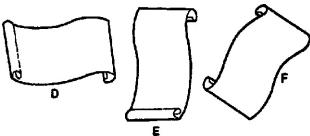






25. Which scroll is wrong?



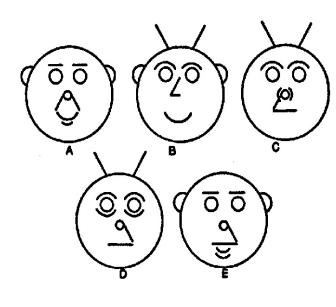


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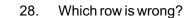
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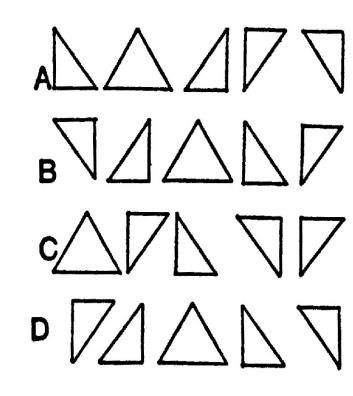
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26. Whose face is wrong?

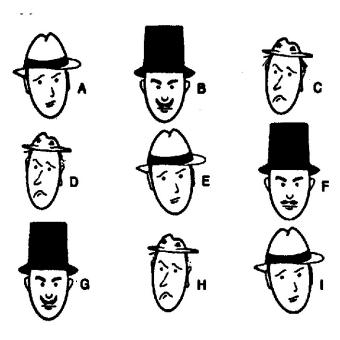


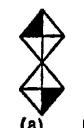
27. Which gentleman has changed his appearance?



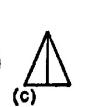


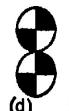
29. Which of these figures is the odd one out?







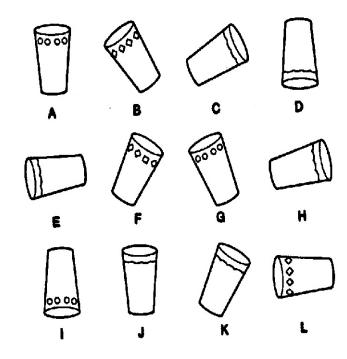




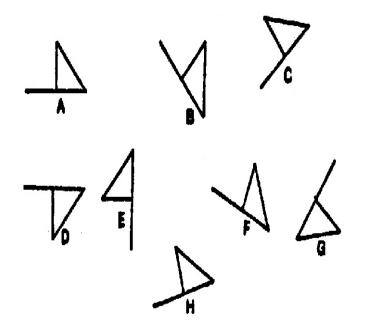




30. Which tumbler is wrong?

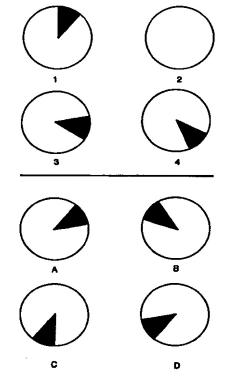


Which one is wrong?

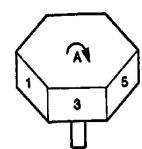


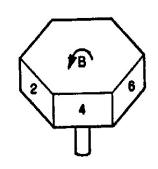
Which of the circle at the bottom should take the place of No. 2 at the top?

IQ Test 304

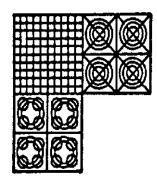


A turns clockwise, two positions at a time. B turns counterclockwise, three positions at a time. After six moves, what will be the total of the two front faces? (The concealed numbers progress in the same way as the visible numbers :7,9 and 11 on A and 8, 10, 12 on B.)

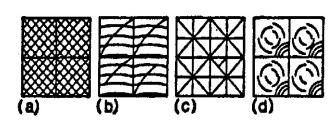




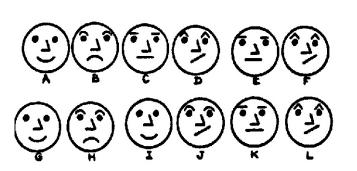
Study the diagram and decide what logically should be the missing section from the choices given.

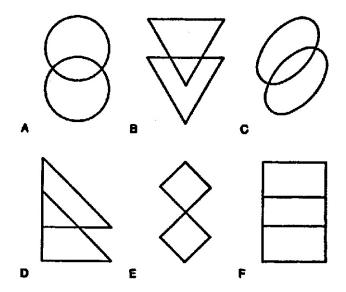


Choose from:

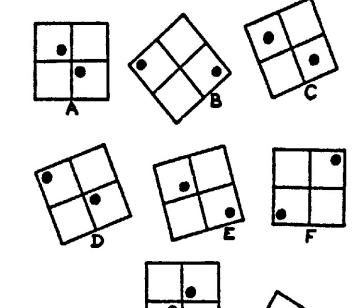


35. Who has change his expression?





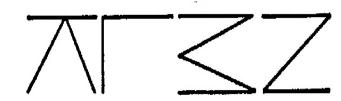
Arrange these into four pairs:



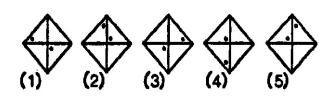
Which one does not conform with the others?

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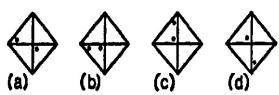
What comes next?



Find the next figure:



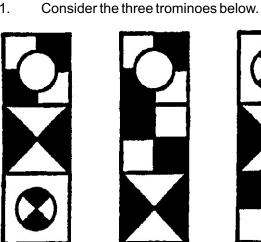
Choose from:

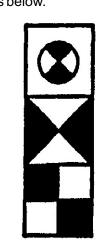


Which shield is wrong?



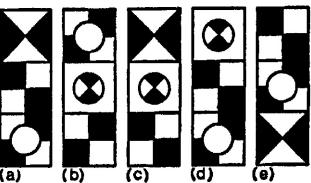
4



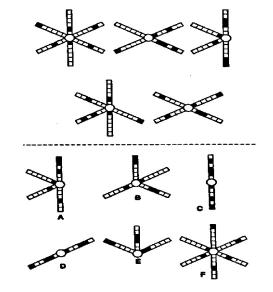


IQ Test 306

Now choose one of the following to accompany the above:



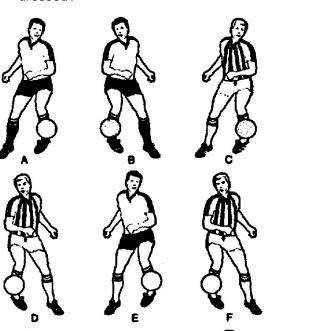
Which of those at the bottom



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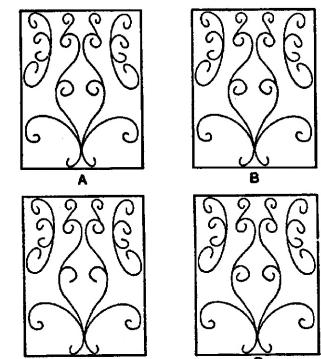
IQ Test 307

43. Which soccer player is incorrectly dressed?

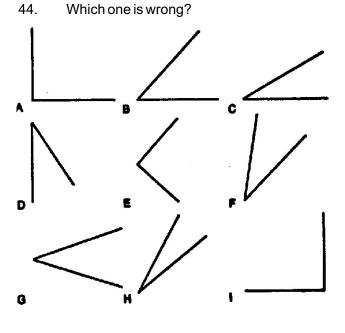


ctly 45. V

45. Which of these wrought-iron gates differs from others?



46. If the figure below were held in front of a mirror and the mirror turned upside-down, which of the other figures would be reflected?



A



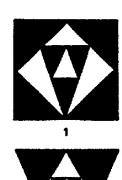


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IQ Test 308

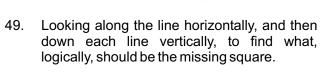
47. Which of the figures at the bottom should follow 3 at the top?



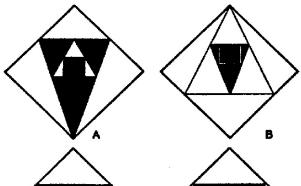


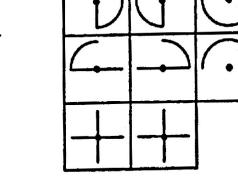


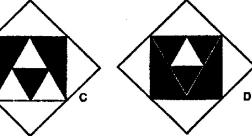




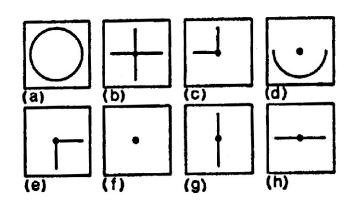
Arrange these partners into four pairs







Choose from:















51. An intelligence test in which you are shown a number of boxes and asked to choose the one which is different is called "Classification". Which one of the following boxes is the odd one out?







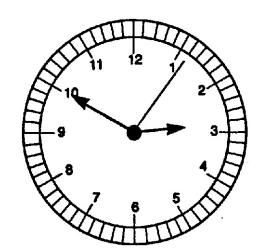




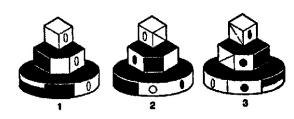


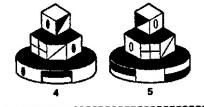


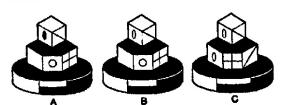
What time will this clock show in 31/2 hours' time, assuming that it loses four seconds in every hour? (State the exact time).

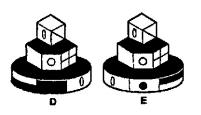


Which of the figure at the bottom should come next?





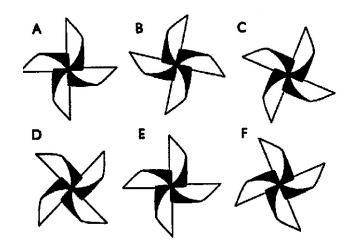




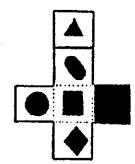
Master Job Aptitude Test

IQ Test 310

54. Which is the odd one out?



56. If this shape were folded along the dotted lines, it could be made into a cube:



like this:



If this cube were turned upside-down, which

of these faces would appear at the top?

Study the numbers in each horizontal row and then decided what, logically, the missing numbers should be.

121321



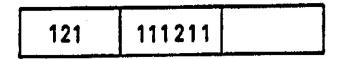


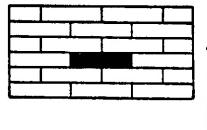
Using your eye only, which is the missing

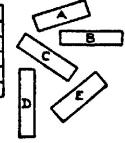


2311

331



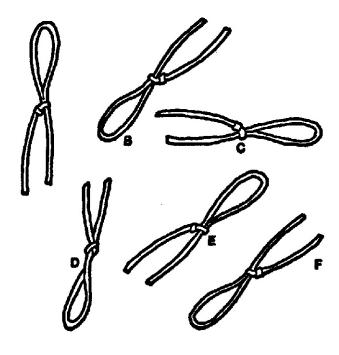




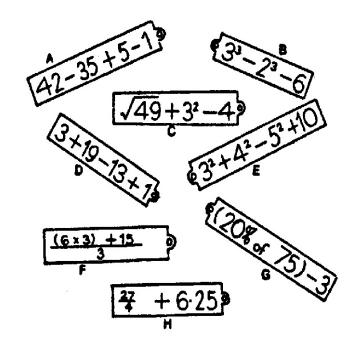
Master Job Aptitude Test

IQ Test 312

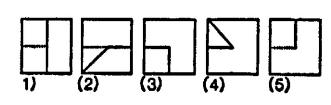
58. Which knot is different?



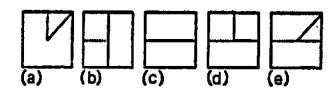
Arrange the labels into four pairs:



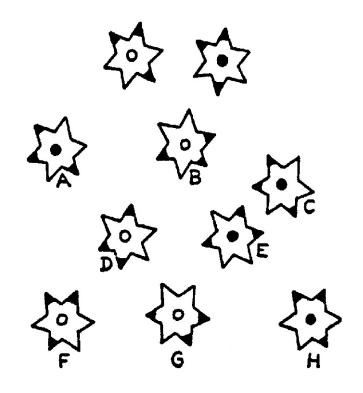
Find the next figure:



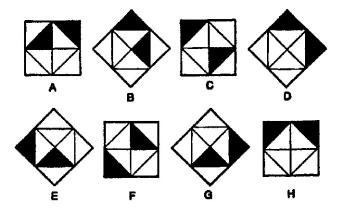
Choose from:



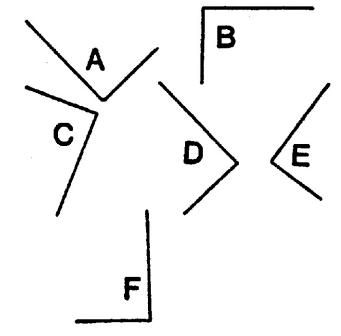
Assuming that the top two star are correct, which of those below are wrong?



Arrange these into four pairs.

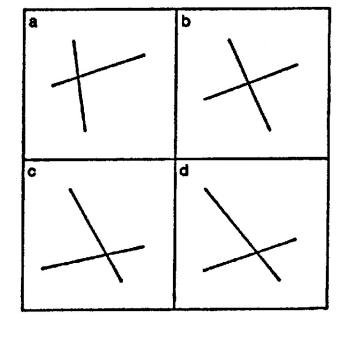


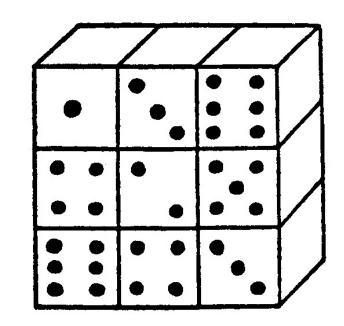
Which of these four crosses is the odd one out?



Which one is wrong?

What is the TOTAL number of sport on the rear side?

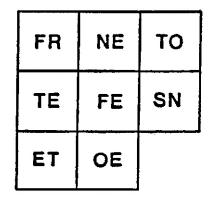




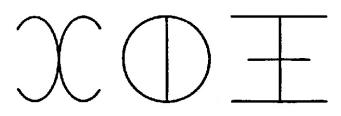
Master Job Aptitude Test

IQ Test 314

Find the missing square:



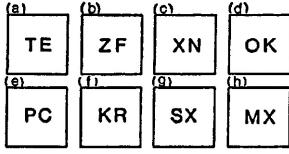
What comes next?

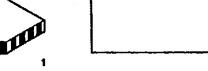


Which of the figure below should

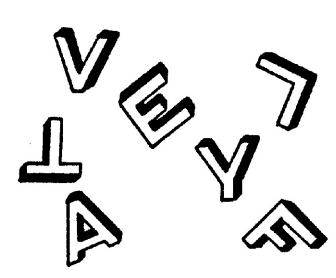
occupy the vacant space?

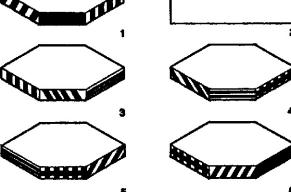
Choose from:

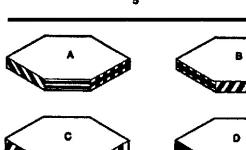




Which letter does not conform with the others?













which of the OUTLINES below will result?



70.







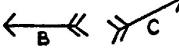
Which cup is the odd one out?

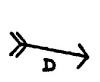


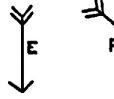
Without turning the page upside down, which of these numbers will not read the same when turned upside-down?

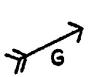
Which of these is wrong?

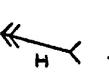










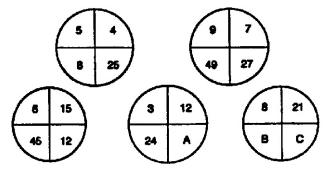




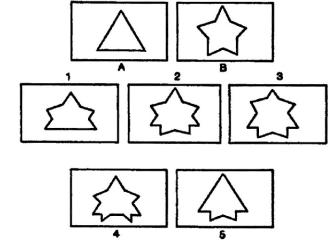


Master Job Aptitude Test IQ Test 315

74. What are A, B, and C?



75. If A were placed on top B which of the outlines below would result?



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ANSWERS AND EXPLANATIONS

- . B
- 2. A
- 3. (A)7; (B)C

BLACK BALL		WHITE BALL
1st Move	D	Α
2nd Move	Е	F
3rd Move	F	D
4th Move	G	В
5th Move	Α	G
6th Move	В	E
7th Move	С	С

- 4. B Removing blocks x and y leaves the following. Turned upside-down, this corresponds with B.
- 5. Band D
- D. The black square moves counterclockwise, first one position, then two, then three, and so on. All other squares moves in the same way.
- 7. AF; Bc; DH; EG
- 8. B
- 9. E The teeth (the projections at the end) which turn the lock are different from those in the other keys.
- 10. C The thread turns the opposite way from the others
- 11. B, E, and H

12. B The very small center suit becomes the large outer suit. The next smallest inner suit becomes the next largest outer suit. The next smallest inner suit becomes the next largest outer suit. The largest outer suit becomes the smallest center suit.

IQ Test 316

- 13. A
- 14. A is-1; B is 1; C is 7; D is 5

We know that a square is worth 4 points, a triangle 3 point and a circle 2 points.

A figure lying ABOVE another adds its value to that of the one below. A figure lying BENEATH another deducts its value from the one above. So, in the first diagram:

The top triangle (3) adds its value to the square beneath it (4) and is worth 7; the circle on the left (2) adds its value to the square beneath it (4)and is worth 6; the bottom triangle subtracts its value (3) from that of the square (4) and is worth 1; the circle on the right subtract its value (2) from that of the square (4) and is worth 2.

Thus in the last diagram: Square A is worth -1 (3 - 4).

Circle B is worth 1 (3-2)

Square C is worth 7(4+3)

Circle D is worth 5 (3-2).

15. X is 9 or 24; y is also 9 or 24. In each case, the number at the top are divided by 4 in the opposite quarter and 1 is added.

An alternate solution is that the numbers in the lower quarter are multiplied by 4 in their opposite quarters and 4 is deducted from the result.

16. E - There are four different types of triangle here:

Equilateral (all sides equal) Isosceles (two sides equal) Right-angled (one right angle) Scalene (all sides unequal)

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IQ Test 317

Each is shaded according to its type, the scalene triangle being shaded like this:

In E, however, is shaded like this:

17. X is 11; y is 61

In the first circle, the number in the top left quarter is squared and then reduced by 1 in the opposite diagonal quarter; the number in the top right quarter is cubed and then 1 added to give the number in the opposite lower quarter.

In the second circle, the same procedure is followed, except that 2 is deducted from the squared number and 2 is added to the cubed number.

Therefore, in the third circle, 3 is deducted from the square of 8 (64 becomes 61, the value for y).while 3 is added to the cube of 2 (8 becomes 11, the value for x).

- 18. (A) When the diagonal line from the base-line of the square inclines to the right, as in C, E and G, the right half of the square is black. When it inclines to the left, as in B, D, and F, the bottom half of the square is black. In A, the right half of the square should be black.
- 19 (C) In C there are 8 curves and 6 straight lines. In all the others there are 6 curves and 6 straight lines.
- 20. In the top line, all the way through, whether using letters or numbers, they reduce one position in each successive square.

In the bottom line, they increase by two position, except for the last term, which reduces its position by three places from that in the previous square.

V5X 7Y1

- 21. G The angle is 60° . The others are 90° , 45° or 30°
- 22. Cand F
- 23. F If each letter has a value according to its position in the alphabet, the total of each word is as follows:

P I G32 D O G26 C A T24 32 (PIG) 8 = 4 that is, D (the 4th letter) 26(DOG) 13 = 2 that is, B (the 2nd letter) 24 (CAT) 4 = 6 that is, F (the 6th letter)

24. A5; B2; C12

Consider the movements of the black section in each figure. It goes diagonally across the square from bottom left to top right and then back again:

In the circle, it moves two segments at a time in a clock-wise direction:

In the diamond it moves alternately from top to bottom:

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25. F Both scrolls are turned the same way; in all others one is turned inwards and the other outwards.

- 26. B The face in B is composed of three circle, four straight lines and the five curves. All the other faces have four circles, four straight lines and four curves.
- 27. F-His mustache differs from B and G.
- 28. C Except for C, each row contain 1 equilateral triangle, 2 right-angled triangle with the base at the bottom and 2 with the base at the top. In C there are three right-angled triangles with the top and only one with the base at the bottom.
- 29. C All the others are symmetric about a horizontal axis, i.e, they appear the same turned upside down.
- 30. F The design around the top should consist entirely of diamond shapes, as in B and L. One of the diamonds has become a square.
- 31. D The triangle should be on the right-hand side of the base-line.
- 32. A
 The black section rotates clockwise 40° at a time.
- 33. 7
 The moves result as follows:

	Α	В	
1st move	7	10	
2nd move	11	4	
3rd move	3	10	
4th move	7	4	
5th move	11	10	
6th move	3	4	(Total:7

- 34. D So that each corner sub-square of each of the four main sections has a line missing.
- 35. J The mouth should be the same as in B and \Box

- 36. AGBFCHDE
- 37. E In all the others identical shapes overlap:

IQ Test 318

- (A) two circles
- (B) two equilateral triangles
- (C) two ovals
- (D) two right-angles
- (F) two square
- In E there are two diamonds which do not overlap.
- 38. O The letters K L M N have been turned on their sides. O is the next letter.
- 39. B The outer dot moves clockwise, first by one position, then two positions, then three, etc. The inner dot moves counter-clockwise, first by one position, then two positions, then three, etc.
- 40. C The cross in the bottom right quarter is different from those in the other shields.
- 41. D- To complete every possible grouping in three of the four different symbols.
- 42. A-From an examination of the black stripes on the vanes, the following fact emerge:

rotates counterclockwise one position at a time.

rotates clockwise one position at a time.

rotates counterclockwise one position at a time.

rotates counterclockwise two position at a time.

rotates clockwise two positions at a time.

rotates counterclockwise two positions at a time.

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- 43. E Soccer players in black short wear black socks; those in white shorts wear white socks. E is wearing black short and white socks.
- 44. G The angle is 60°. The other are 90°, 45° or
- 45. C The middle scrolls do not conform with the others.
- B The fact that MIRROR (not the figure) is held upside-down will make no difference to the reflection.
- 47. A The smallest figure in the center becomes the largest figure on the outside, while the other figure remain in the same order.
- AE BD CG FH
- Looking across, the curved lines merge and the straight lines disappear. Looking down, the reverse happens. The missing square is, therefore, (f).
- 50. E-The diagonal slat from top left to bottom right should pass under the other slats.
- 51. E. it is the only one where the dot is inside the
- 6 hours, 19 minutes, 52 seconds. The present time shown is 2 hours, 50 minutes, 6 seconds. Ignoring the seconds, the time in 31/2 hours will be 6:20. In the meantime, the second hand will have lost 14 seconds. Instead of showing six seconds after the hour it will show eight seconds BEFORE the hour - that is, 52 seconds. This means that the minute hand will not have reached the 20-minute mark, but will have passed the 19-minute mark.

- 53. B The cube rotates clockwise; the hexagon rotates counterclockwise, the circle rotates clockwise.
- 54. В
- 121 111211 311221. each number describes the previous number, i.e., 121 then 1 - 1, 1 - 2, 1 - 1, then 3-1s, 1-2, 2-1s,
- С 56.
- 57. С
- 58. D
- 59. E. There are two arms-one moves through 90 degrees each time and the other through 45 degrees. The dotted line never moves but is covered by the black arms when they coincide with its position.
- AF BH CG DE A and F each equal 11. B and h each equal 13. C and G each equal 12. D and E each equal 10.
- 61. FandH
- D all the other words contain letters in alphabetical order.
- C. It is the only cross that will not fit snugly inside a one-inch square.
- E. Both lines are shorter than those in the other angles.
- 29 65.
- G. SX. Each square contains the first and last letters of the numbers one to nine positioned in such a way so as to form a magic square where each horizontal, vertical, and coener-to-corner line total 15.

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- 67. L. The block (the black portion) should be on the right of the letter.
- The letters are C, D and E. In each case they are paired and joined together, first reserved and then printed correctly. The next letter is F, arranged in the same way.
- D The figure is rotating clockwise.
- 70.
- G The handle is in the wrong position as compare with B and D.

- 72. С
- H. The point has two barbs instead of one, and one set of tail feathers instead of two.
- A is 9; B is 63; C is 16. Prime numbers are squared in the opposite quarter; even numbers are double in the opposite quarter; odd numbers are tripled in the opposite quarter.
- 75. 2

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- Visit our website www.iecnetwork.com and download more questions and answers
- Attend our monthly seminar.

 Call 08033438062 for lecture arrangement at our office.

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Hidden Figure Test 321

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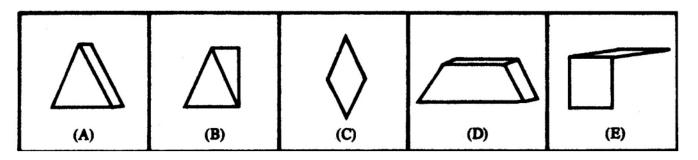
Hidden Figure Test I 322

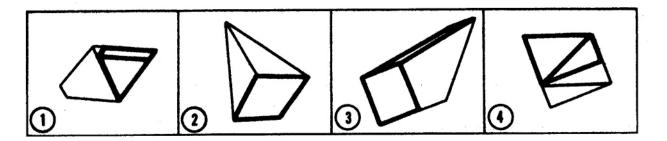
HIDDEN FIGURES

Hidden figures test your ability to find a simple geometric pattern within a larger, more complex pattern. Each test presents a set of five simple patterns labeled (A), (B), (C), (D), and (E). These simple patterns are followed by a group of more complex patterns, which are numbered starting with 1. For each numbered pattern, you are to chose the one lettered pattern that can be found hidden within the more complex form. Try the four sample questions first. Then go on to do the three Hidden Figures Tests that follow. Correct answers to all Hidden Figures Test are consolidated at the end of this chapter.

FOUR SAMPLE QUESTIONS FOR PRACTICE

STEP ONE: Examine the five simple figure below:





STEP THREE: On your answer sheet, blacken the letter of the simple figure found in each numbered complex figure. Correct answers to sample questions 1 to 4 are shown below and by the darkened lines above.









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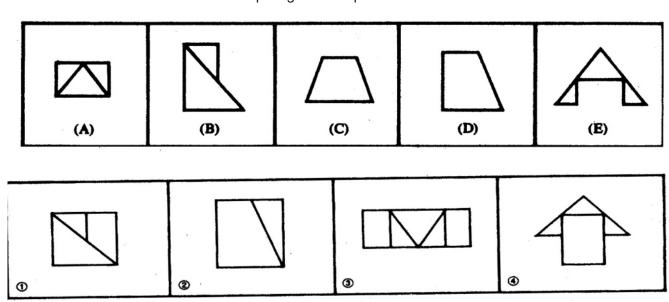
HIDDEN FIGURES TEST I

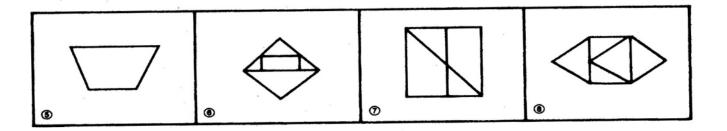
28 QUESTIONS 10 MINUTES

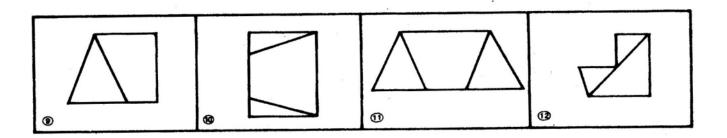
DIRECTION:

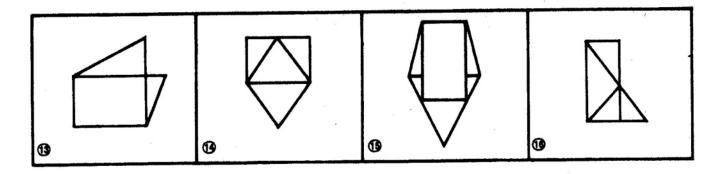
Find the simple figures hidden in these more complex figures. On your answer sheet, blacken the letter that corresponds to the simple figure you find in each complex figure below.

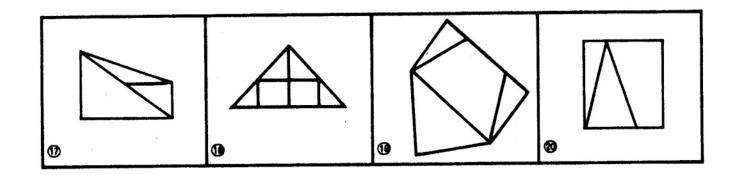
Simple figures for questions 1 to 28

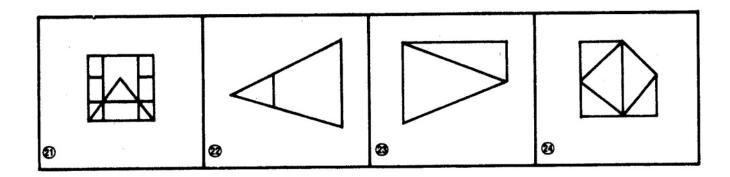


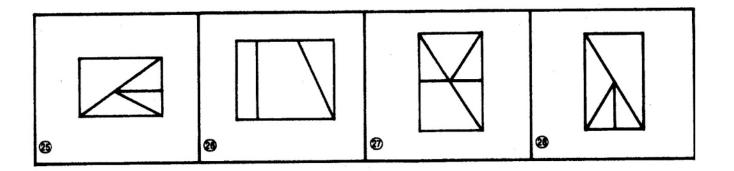










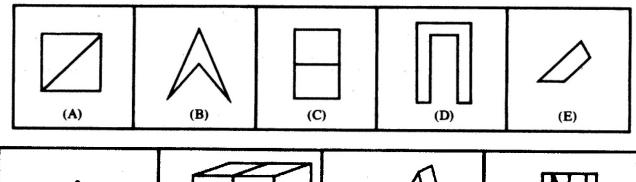


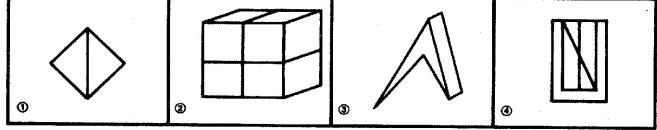
32 QUESTIONS 10 MINUTES

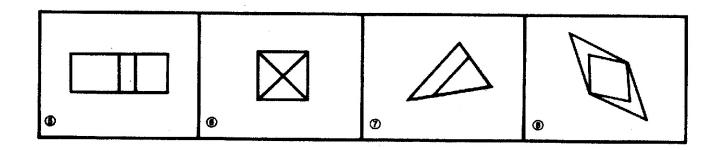
DIRECTION:

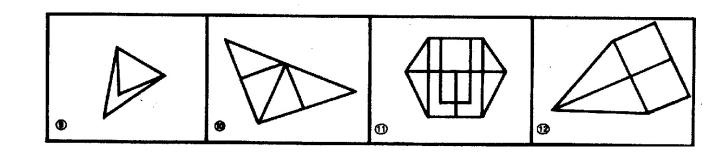
Find the simple figures hidden in these more complex figures. On your answer sheet, blacken the letter that corresponds to the simple figure you find in each complex figure below.

Simple figures for questions 1 to 32









Master Job Aptitude Test

Hidden Figures Test II 325

Hidden Figures Test I 326

HIDDEN FIGURES TEST I

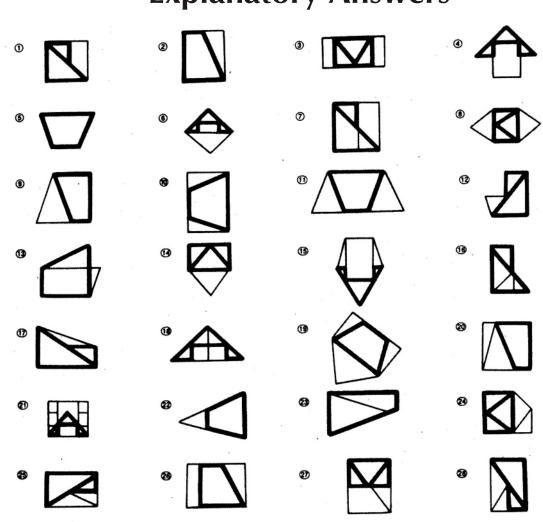
Correct Answers

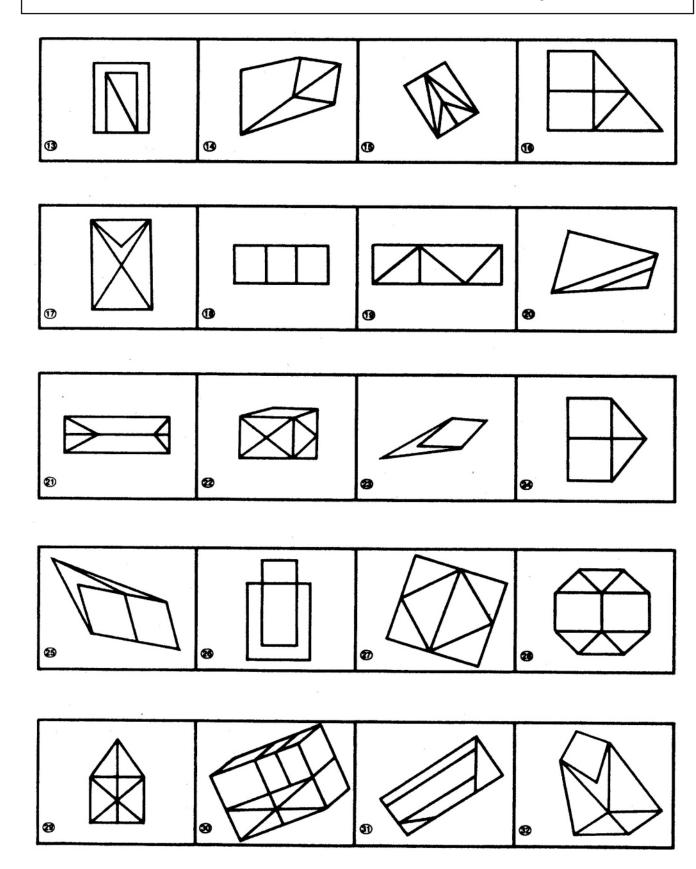
1.	В	9. D	17.	В	25.	В
2.	D	10. C	18.	E	26.	D
3.	Α	11. C	19.	С	27.	Α
4.	E	12. B	20.	D	28.	В
5.	С	13. D	21.	E		
6.	E	14. A	22.	С		
7.	В	15. E	23.	D		

16. B

Explanatory Answers

24. A





Master Job Aptitude Test

HIDDEN FIGURES TEST II

Correct Answers

1.	Α	9. B	17.	В	25.	В
2.	С	10. A	18.	С	26.	D
3.	В	11. D	19.	Α	27.	Α
4.	D	12. C	20.	E	28.	С
5.	С	13. D	21.	E	29.	Α
6.	Α	14. A	22.	Α	30.	С
7.	E	15. B	23.	В	31.	Ε
8.	В	16. C	24.	С	32.	В

Explanatory Answers





























































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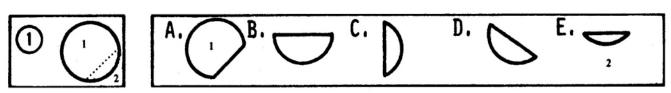
MATCHING PARTS AND FIGURES

There are several types of questions that test your ability to match parts and figures. Although the directions may vary slightly, each question type requires you to visualize the shape or pattern that can result from fitting together a number of cut-up pieces.

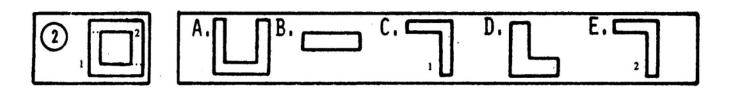
Questions 1 and 2 below illustrate one type of Parts and Figures question. In these questions, you are given one numbered figure and a group of five lettered figures. You are to choose the two lettered figures that, when put together make a figure of the same size and shape as the numbered figure.

Master Job Aptitude Test

Look at question 1. The numbered figure is a circle. Each lettered figure is a part of a circle; however, only alternatives A and E will fit together to make a complete circle of the same size as the given circle.



Now try question 2



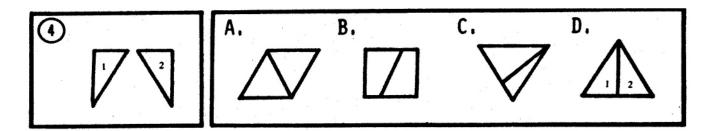
Only alternatives C and E will fit together to form the square within a square illustrated by the given figure.

Questions 4 and 5 reverse the procedure used in the first two questions by giving you numbered pattern pieces and asking you to identify the complete pattern that can be made from the pieces

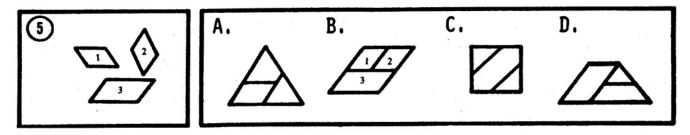
shown. As in the other question types, you may have to mentally turn over or turn around the pieces given in order to create the pattern.

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The only arrangement that can be made of the two pieces shown in question 4 is the one illustrated by alternative D



The three pieces shown in question 5 can be arranged only as indicated in alternative B

MATCHING PARTS AND FIGURES TEST I

15 QUESTIONS 5 MINUTES

DIRECTIONS

Master Job Aptitude Test

Each of the questions in this test consists of a numbered figure plus a group of five figures lettered A, B, C, D and E. When two of these lettered figures are put together they make up the numbered figure. Choose the letters of the two figures that, when put together, are most nearly the same as the numbered figure.

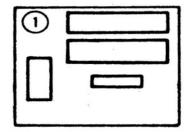
	A	c	D	E
	A	c.	D. 🖊	E. △
(3)	A	c	D. 🔾	E
① (<u></u>	A. ~~_B. ~~	۲.۲	D. [}	E. }
(§	A	C	D.	E
(§)	A	c	D	E.
(1) T	A B. []	C.	D	E. []

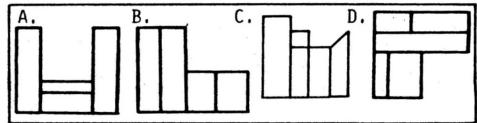
MATCHING PARTS AND FIGURES TEST II

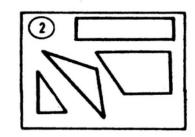
9 QUESTIONS **4 MINUTES**

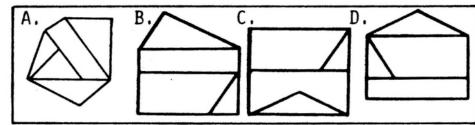
DIRECTIONS

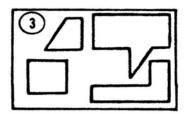
Each of the questions in this test consists of a numbered picture that shows the parts of an object. To the right of the numbered picture are several objects lettered A, B, C, and D. You are to select the lettered object that is made up from the numbered parts.

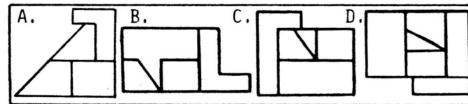




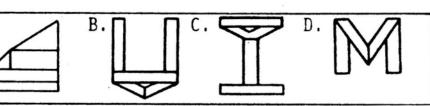


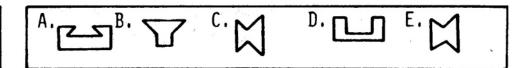






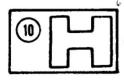


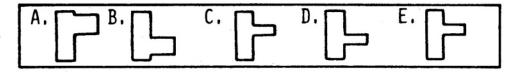




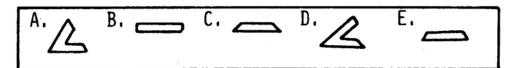




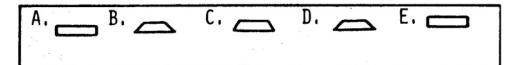


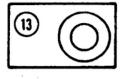


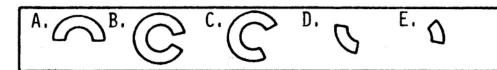


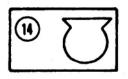




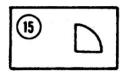


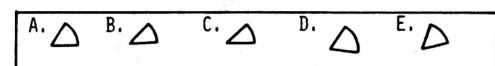










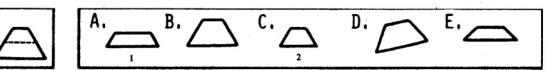


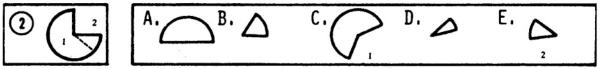
MATCHING PARTS TEST I

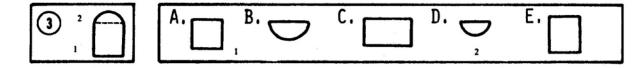
Correct Answers

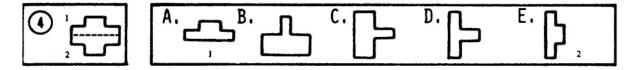
- 1. A, C 4. A, E 7. B, E 10. C, E 13. C, D
- 2. C, E 5. A, E 8. A, C 11. A, E 14. A, B
- 3. A, D 6. D, E 9. B, E 12. B, D 15. B, C

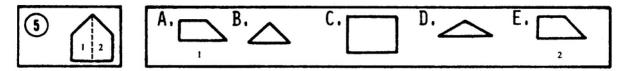
Explanatory Answers

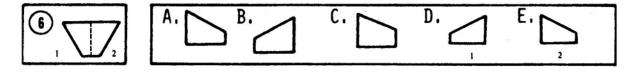


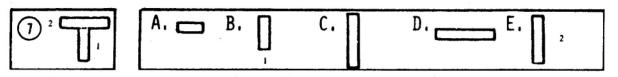


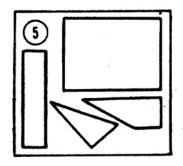


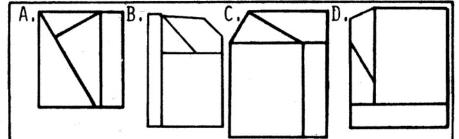


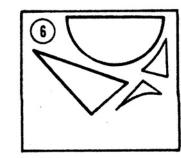


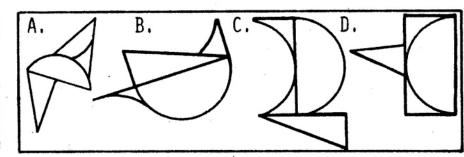


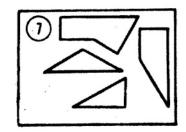


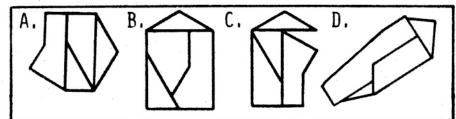


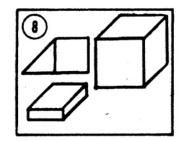


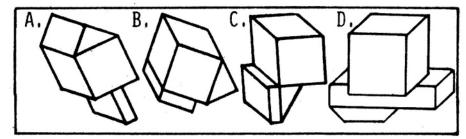


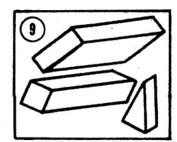


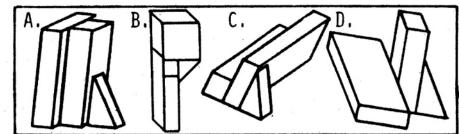












Master Job Aptitude Test

Matching Parts Test I 335

Master Job Aptitude Test

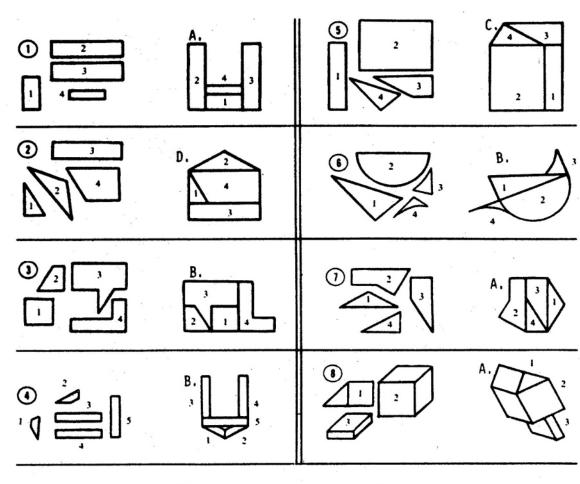
Matching Parts Test II 336

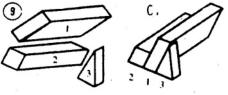
MATCHING PARTS TEST II

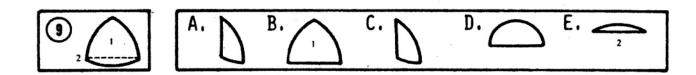
Correct Answers

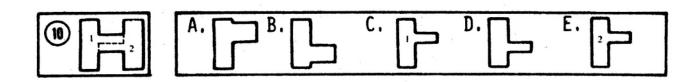
- 4. B 7. A
- 6. B

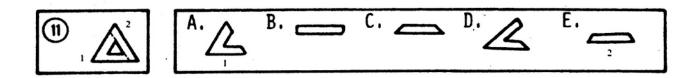
EXPLANATORY ANSWERS

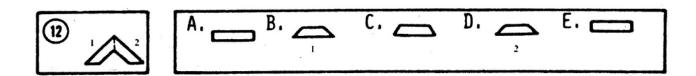


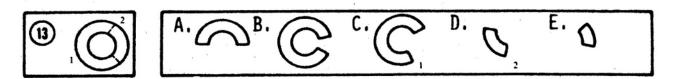


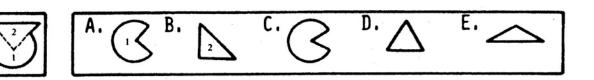


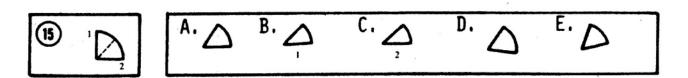








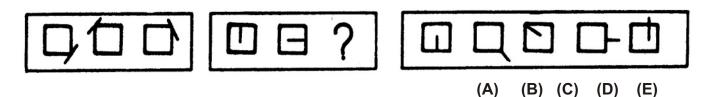




SYMBOL ANALOGIES

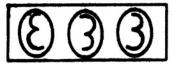
Symbol Analogy questions are intended to measure your ability to find the underlying relationships that exist among groups of symbols. Each questions consists of three boxes of symbols. The first box contains three symbols; the second box contains two symbols and a question mark; and the third box contains five symbols that are lettered (A), (B), (C), (D), and (E). Choose the one lettered symbol from the third box that can best be substituted for the question mark in the second box. In order to do this, identify what it is that the symbols in the first two boxes have in common and the further pinpoint how the that common feature varies between the first and second boxes. The answer must be that symbol that has the feature common to all the symbols in the series and yet maintains the same variation fo that symbol as exhibited by the other two symbols in the second set.

TWO SAMPLE QUESTIONS EXPLAINED



The common characteristic of this series is that each symbol consists of a square and a line that touches the square. The variation that distinguishes the symbols in the first set from those in the second set is the placement of the line in relation to the square. In the first set of symbols, the lines are

tangent to one corner and outside each square. In the second set, the lines are perpendicular to one side and completely within each square. Only alternative (A) maintains this pattern.







(B) (C) (D) (E)

The common feature of this series is that all of the symbols are made up of similar curves enclosed within ovals. In the first set of symbols, two of the enclosed figures face in the same direction and one is reversed. Since the second set contains two

enclosed figures facing in the same direction, the missing figure must be an oval that contains a figure that is the reverse of the two figures shown in the second set of symbols. Alternative (B) is the correct

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The following list will help you spot the common features and their variations which are likely to turn up in Symbol Analogies questions.

COMMON FEATURES	VARIATIONS OF THE COMMON FEATURE
Lines that divide a figure	Equal or unequal divisions
Lines that form angles	Acute, obtuse, or right angles
Direction of lines	Vertical, horizontal, or slanted pointed up or pointed down
Type of line	Solid or broken Curved or straight All the same, some different, or all different
Number of lines	2, 3, 4, etc. Same number in each figure or different number in each figure
Relationship among lines	Intersecting or nonintersecting Parallel or not parallel
Relationship of line to figures	Lines inside or outside figures Lines touching or not touching figures
Closed shapes	Formed of straight lines or curved lines
Open figures	Open end up or down, left or right
Direction of figure	Pointed up or down, left or right
Shape of figure	Same shapes or different shapes
Shading of figure	Wholly or partially shaded Shaded with horizontal, vertical, or slanted lines
Size of figure	Small or large Same size or different sizes
Relationship between figures	Touching separate Overlapping, sharing a common side
Figures within figures	Same figures or different figures concentric Figures or not concentric

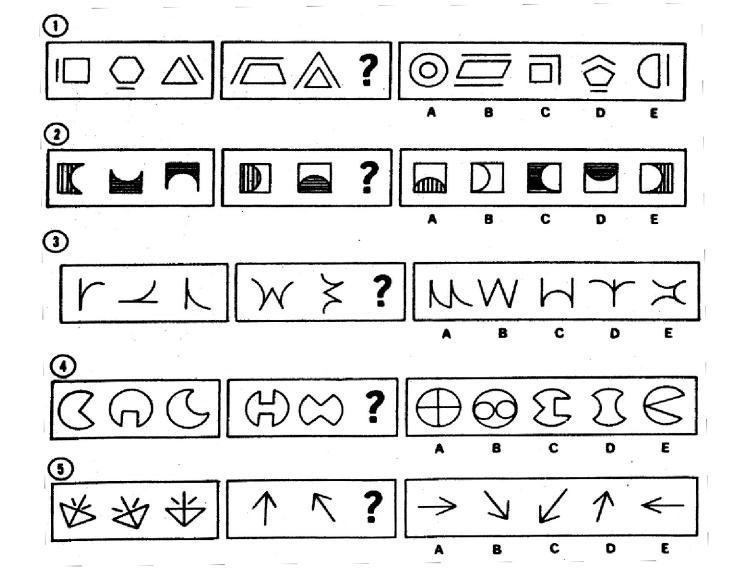
Master Job Aptitude Test

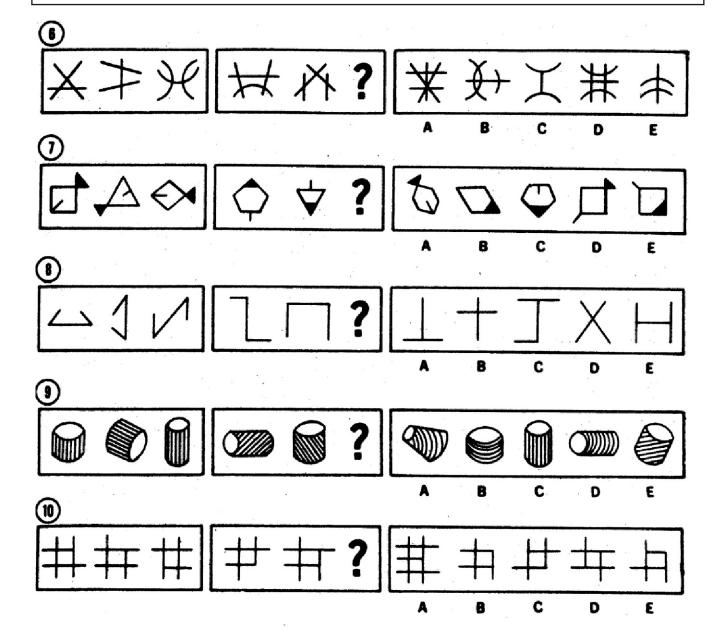
SYMBOL ANALOGIES TEST I

10 QUESTIONS 4 MINUTES

DIRECTIONS:

Each question consists of two sets fo symbols that are analogous to each other. That means that the sets share a common characteristic while they differ in a specific aspect of that characteristic. In each question, the first set contains three symbols and the second set contains two symbols and a question mark. Following the symbol sets are five alternatives labeled A, B, C, D, and E. Choose the one lettered symbol that can best be substituted for the question mark. The correct choice will have the characteristic common to both sets of symbols and yet maintain the same variation of that characteristic as the two symbols in the second set. Correct and explanatory answers follow this test





Master Job Aptitude Test

Master Job Aptitude Test Symbol Analogies Test I 341

SYMBOL ANALOGIES TEST I

Correct Answers

1.	С	4. D	7.	E	10.	D	13.	D
2.	D	5. D	8.	Α	11.	E	14.	С
3.	Α	6. B	9.	E	12.	С	15.	В

Explanatory Answers

- 1. C All of the symbols in this series consist of a closed shape and line outside and parallel to the shape. In the first set, there is one line outside each shape and parallel to one side. In the second set, there are two adjoining lines outside each closed shape. These outside lines run parallel to two of the sides of each closed shape. Only figure C follows this pattern.
- 2. D Each figure consists of both straight and curved liens, and each is shaded. In the first set, the lines in the shaded area run parallel to the longest straight edge. In the second set, the lines in the shaded area run parallel to the diameter of the semi-circle. Only in alternative D is this pattern maintained.
- 3. A each symbol in this series consists of two or more lines. In the first set, each figure has two lines one straight and one curved. In the second set, each figure has four lines two straight and two curved. Figure A is the only symbol that can complete the second set.
- 4. D All of the figures in this series consist of circles with some part cut out. In the first set, there is first a triangular, then a square, and then a curved cut-out in the circles. In the second set, the cut-outs follow the same pattern, but here there are two cut-outs in each circle. Since the triangular and square cut-outs are shown, the missing figure in the second set must be a circle with two curved cut-outs, as in alternative D.
- 5. D All of the figures in this series are essentially arrows, but they differ in the direction in which they point. All of the figures in the first set are pointing down and all of the figures in the second set are pointing up. Therefore, the missing arrow must be alternative D, the only one pointing in the right direction.
- 6. B All of the figures in this series are made up of lines that are straight, curved, or a combination of the two. However, each figure in the first set consists of three lines, while each figure in the second set consists of four lines. Only alternative B presents a figure made up of four lines, which is what is needed to complete the second set.

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Master Job Aptitude Test

Symbol Analogies Test I 342

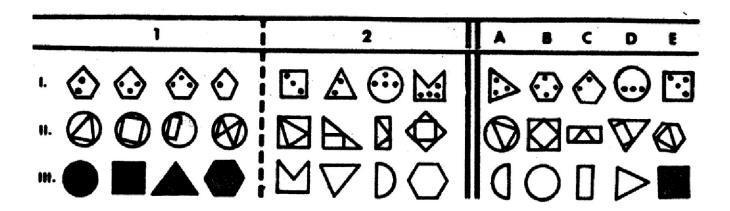
- 7. E Each symbol in this series consists of a closed shape, a small dark triangle, and a short line. In the first set, the small dark triangle is outside the closed shape, with the short line opposite and inside the figure. In the second set, the small dark triangle is inside each figure and the short line opposite and outside. Alternative E, which meets both these conditions, is the figure needed to complete the second set.
- 8. A All of the figures in this series consist of straight lines that form angles. In the first set, each group of lines forms two acute angles. In the second set, each group of lines forms two right angles. The only alternative that forms two right angles is A.
- 9. E The common feature of this series is that each symbol is a cylinder with lines on the outside surface. In the first set, the lines all run perpendicular to the base. In the second set, the lines all run diagonal to the base. Alternative E is the only one that correctly completes the set.
- 10. D Each figure in this series consists of four lines some long and some short. All of the figures in the first set are made up of three long lines and one short line. All of the figures in the second set consist of two long lines and two short ones. Therefore, alternative D is the one that is needed to complete the set.
- 11. E The common feature of this series is that each symbol is a rectangle with the line inside it. In the first set, each rectangle has one broken line within in it,. In the second set, each rectangle contains one broken and one solid line. Such a figure is illustrated by alternative E.
- 12. C Each figure in this series represents rotation. In the first set, the figures indicate rotation in a clockwise direction, while in the second set, the figures indicate counterclockwise rotation. Figure C, which represents counterclockwise rotation, is the one that is needed to complete the set.
- 13. D The symbols in the first set are repeated in the second set, but the ends are closed and opposite segments are shaded. Since the first two symbols from the first set already appear in the second set, it must be a variations of the third symbol that is needed to complete the set. Such a figure is provided by alternative D.
- 14. C All of the symbols in this series are teardrops. In the first set, the teardrops overlap. In the second set, the pointed ends touch. The missing figure must be C, which consists of teardrop shapes with points touching.
- 15. B The common features of these sets is that each symbol is a closed shape with lines in it. In the first set, the enclosed lines run at right angles to each other. In the second set, each shape is divided in half and the enclosed lines form a herringbone pattern, as in alternative B.

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FIGURE CLASSIFICATION TEST

In Figure Classification Tests, each problem consists of two groups of figure that are labeled 1 and 2. These two groups are followed by five answer figure that are lettered A, B, C, D, and E. For each problem decide what characteristic is common to EACH of the figures in group 1 but appears in NONE of the figure in group 2. Then select the lettered answer figure that has this characteristic. The sample problems that follow should make the directions guite clear.

THREE SAMPLE QUESTIONS EXPLAINED



In sample problem 1, all the figures in group 1 are pentagons, but none of the figures in group 2 is a pentagon; therefore, C the only pentagon among the answer figures, is the correct choice.

In sample problem II, all the figures in group 1 include a circle, but none of the figures in group 2 includes a circle; so A is the correct answer.

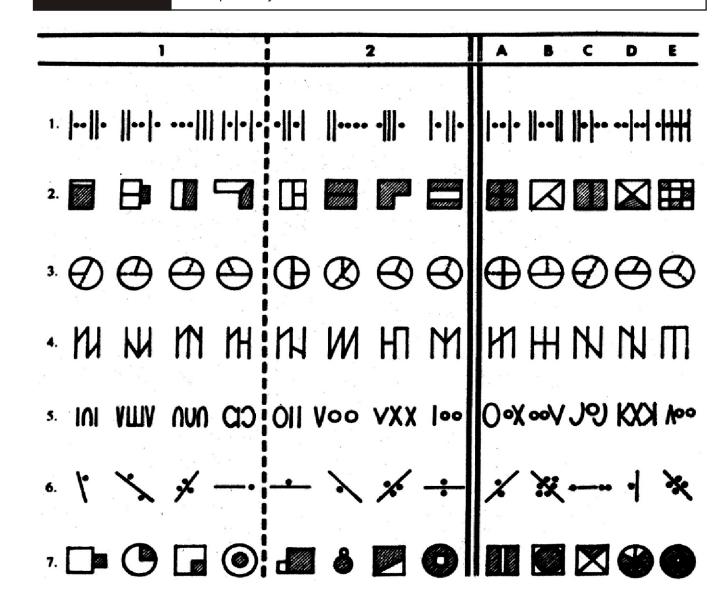
In sample problem III, all the figures in group 1 are shaded, but none of the figures in group 2 are shaded. Therefore, the correct answer is E, the only shaded answer figure.

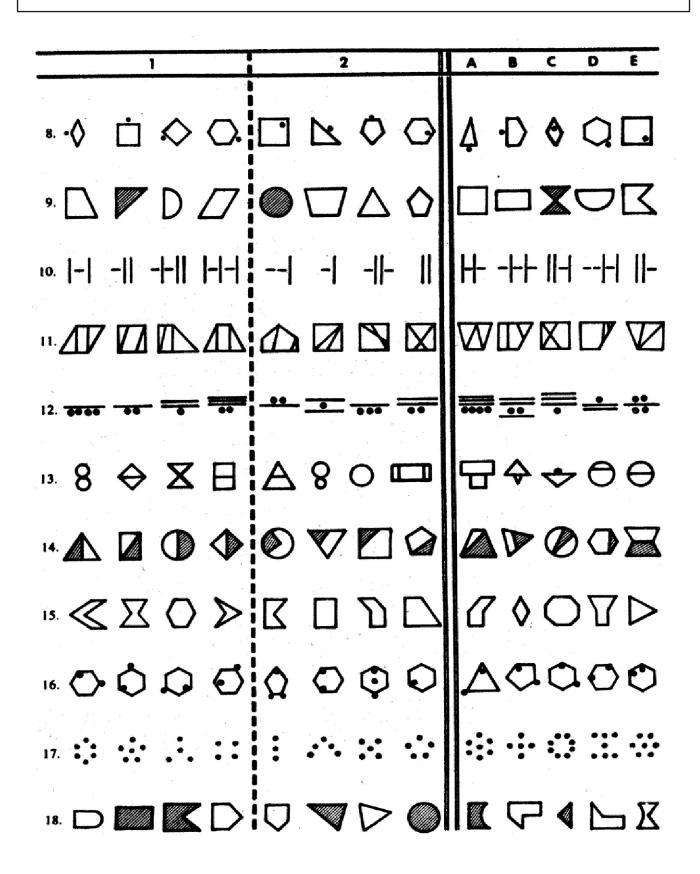
FIGURE CLASSIFICATION TEST **25 QUESTIONS 10 MINUTES**

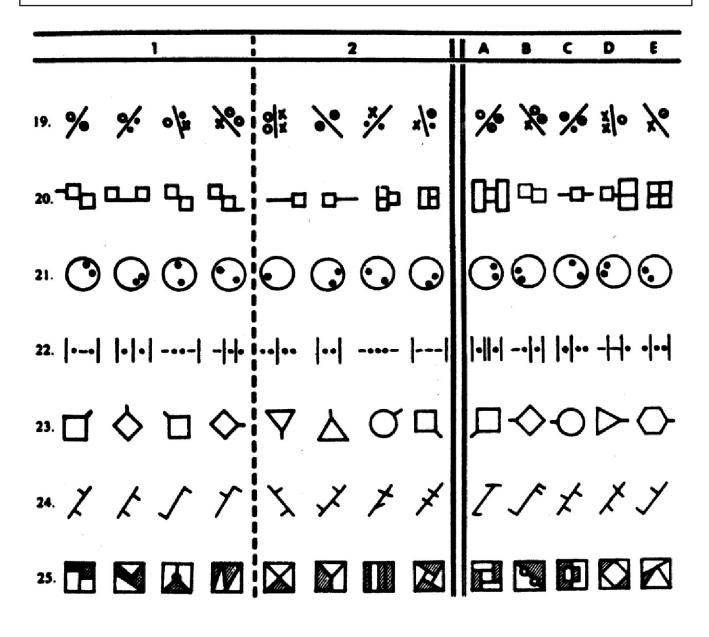
DIRECTIONS

Master Job Aptitude Test

Each of these problems consists of two groups of figures, labeled 1 and 2. These are followed by five answer figures lettered A, B, C, D, and E. For each problem, decide what characteristic each of the figures in group 1 has that none of the figures in group 2 has. Then select the lettered answer figure that has this characteristic. Correct and explanatory answers follow this test.







Master Job Aptitude Test Figure Classification Test 34

FIGURE CLASSIFICATION TEST

Correct Answers

•	1.	С	6. A	11.	D	16.	С	21.	Ε
2	2.	D	7. C	12.	Α	17.	С	22.	В
3	3.	В	8. D	13.	Е	18.	Α	23.	В
2	1.	В	9. E	14.	Е	19.	Е	24.	Е
Ę	5.	D	10. E	15.	В	20.	В	25.	С

EXPLANATORY ANSWERS

Every figure in Groups I, but no figure in Group II

1	C	consists of three lines and three dots
Ι.	C	consists of three lines and three dots

- 2. D consists of a single undivided shaded region touching any number of white regions.
- 3. B is a circle with three radii, two solid and one dotted, that form two angles totaling 180°.
- 4. B contains intersections in the middle of its far left and far right vertical lines.
- 5. D has three elements, the first and third being mirror images
- 6. A has exactly one dot to the right of the line
- 7. C has more white area than shaded area
- 8. D has an even number of sides, with the dot outside the figure
- 9. E is asymmetrical if a vertical line is drawn through the centre
- 10. E has one more vertical line than the number of horizontal lines
- 11. D consists of one quadrilateral inside of another quadrilateral
- 12. A has an odd number of elements, with no dot above any line
- 13. E consists of two congruent parts

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Master Job Aptitude Test

Figure Classification Test 348

14.	Е	has equal areas of while and shaded territory
15.	В	has no vertical lines
16.	С	is a hexagon with one dot inside and one dot outside
17.	С	has an even number of dots
18.	Α	has [at its left end
19.	E	has two elements to the right of the line and one element to the left of it (a dot in a circle together count as two elements)
20.	В	has two rectangles
21.	Е	has the black dot above the white dot
22.	В	contains five parts, two of which are dots
23.	В	is a quadrilateral with a line attached to it, extending horizontally, straight up, or diagonally up
24.	E	is a line slanted like this /, with two perpendicular lines attached to it.
25.	С	consists of two shaded regions and two white ones

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SYMBOL SERIES

Symbols Series questions test your ability to spot the relationship governing a group of symbols so that you are able to choose the next term in the series. Each question consists of a series of five symbols on the left half of the page. Next to these are five other symbols labeled (a), (B), (C), (D) and (E). Study the first five symbols to determined what is happening in the series. Then select the one lettered symbol that best continues the series.

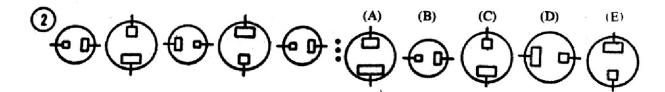
TWO SAMPLE QUESTIONS EXPLAINED



Each symbol in this series consists of two coils. The symbols differ from one another in the number of loops in each coil. In the first symbol, each coil has five loops; in the second, the left-hand coil has four loops and the right-hand coil has five loops; in the third, each coil has four loops. As this series progresses, first the left-hand coil loses a loop and then the right-hand coil losses one.

Since the fifth symbol in the series has three loops in each coil, the sixth symbol must have two loops in the left-ihand coil and three loops in the right-hand coil, as shown in the symbol labeled (A).

The first five symbols in question 2 show an alternation from small to large, with a quarter-turn in a clockwise direction from one symbol to the next.



Therefore, the next term must be a large circle (which eliminates alternative B) with the larger rectangle at the bottom of the circle (which eliminates alternatives D and E). A closer look at alternative (A) shows that the rectangles within this circle are larger than the rectangles in any of the other circles.

The best choice for the next term in this series is

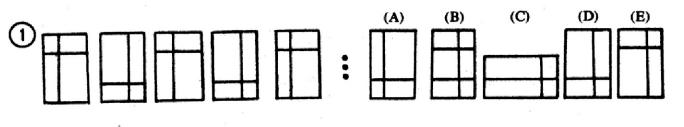
alternative (C), which shows a large circle with a small square at the top and a larger rectangle on the bottom.

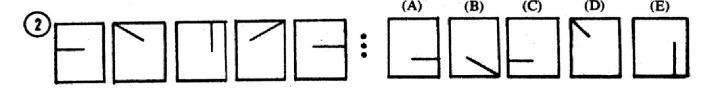
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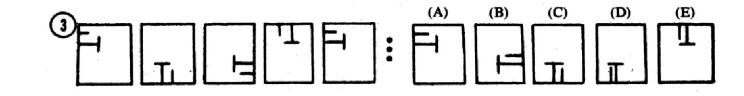
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27 QUESTIONS

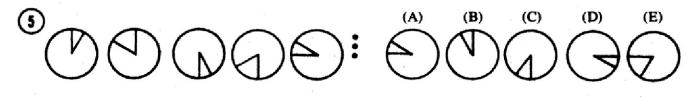
12 MINUTES

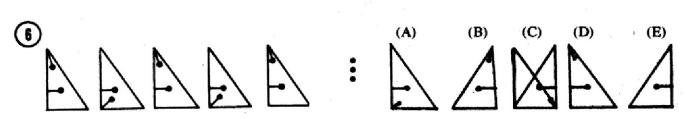












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