

Haryana TGT Reasoning Sample Paper

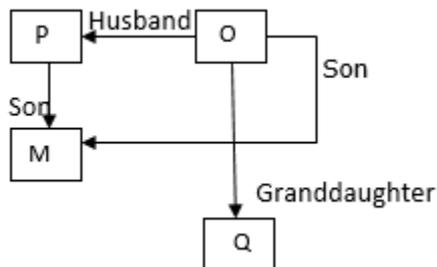


1. M is son of P, Q is the grand-daughter of O, who is the husband of P. How is M related to O?

- A. Son
- B. Daughter
- C. Mother
- D. Father

Ans. A

Sol.



Clearly, M is the son of O.
Hence, option A is correct.

2. Out of the given options, three are similar in a certain manner. However, one option is NOT like the other three. Select the option which is different from the rest.

- A. DW
- B. HR
- C. JQ
- D. FU

Ans. B

Sol.

In English Alphabet, D is the 4th alphabet from beginning and W is the 4th alphabet from the end.

H is the 8th alphabet from beginning and R is the 9th alphabet from end.

J is the 10th alphabet from beginning and Q is the 10th alphabet from the end.

And, F is the 6th alphabet from the beginning and U is the 6th alphabet from the end.

In each of the above pair all the alphabets are at the same position from beginning and end respectively except "HR" which is 8th and 9th position respectively.

So, "HR" is not like others.

3. Choose out the odd one:

Tricycle, Trident, Trifle, Tricolour

- A. Tricycle
- B. Tricolour
- C. Trifle
- D. Trident

Ans. C

Sol. In Tricycle, Trident and Tricolour 'tri' represent three.

But, in Trifle 'tri' doesn't mean three.

Hence, "Trifle" is the odd one.

4.If $2^4 = 72$ and $5^3 = 152$ then the value of 36 is:

A. 243

B. 225

C. 326

D. 189

Ans. A

Sol.

As,

$$2^3 + 4^3 = 72$$

and

$$5^3 + 3^3 = 152$$

Similarly

$$3^3 + 6^3 = 27 + 216 = \mathbf{243}$$

5.Five boys B1, B2, B3, B4 and B5 like any one colour out of the five different colours : red, yellow, green, orange and pink. Each of them have one bike out of five bikes : L, M, N, P and T. None of them likes same colour and none of them have same bike. Boy who like orange have bike P. B2 have bike M and he likes green colour. B1 likes colour red or yellow and have bike L. B4 likes either red or yellow. B5 have either N or T bike. Which of the following combination of Bike – Colour – Boy can be correct?

A. P – Red – B1

B. L – Pink – B5

C. T – Yellow – B4

D. M – Yellow – B2

Ans. C

Sol.

According to the question:

Case 1: Each of them has one bike out of five bikes: L, M, N, P, and T.

Case 2: None of them likes the same colour and none of them have the same bike.

Case 3: Boy who likes orange has bike P.

Case 4: B2 has bike M and he likes green colour.

Case 5: B1 likes colour red or yellow and has bike L.

Case 6: B4 likes either red or yellow.

Case 7: B5 has either N or T bike.

As per the information provided by the question given below is the table representing boy, the bike they have, and the color they like:

Boys	Bike	Color	
B1	L	Red/Yellow	Yellow/red
B2	M	green	
B3	N/T	Pink	
B4	T/N	Yellow/red	Red/Yellow
B5	P	orange	

Thus, the required answer is B4 may have a T bike and is a possibility of liking the yellow colour.

6. Here are some words translated from an artificial language.

moolokarn means blue sky

wilkospadi means bicycle race

moolowilko means blue bicycle

Which word could mean "racecar"?

- A. wilkozwet
- B. spadiwilko
- C. moolobreil
- D. spadivolo

Ans. D

Sol. From *wilkospadi*, you can determine that *wilko* means bicycle and *spadi* means race. Therefore, the first part of the word that means racecar should begin with *spadi*. That limits your options to b and d. Option b, *spadiwilko*, is incorrect because we have already determined that *wilkomeans* bicycle. Therefore, the answer must be choice d, *spadivolo*.

7. How many are such pairs of letters there in the given word which have as many letters between them in the word as in the English alphabet?

CORPORATION

- A. 4
- B. 1
- C. 2
- D. 3

Ans. A

Sol. There are 4 pairs of letters in the word CORPORATION have as many letters between them in the word as in the English alphabet. For example P_R, R_T, PO, ON.

8. Find the word that cannot be formed from the letters of the word INTELLECTUAL

- A. TALE
- B. LAME
- C. LATE
- D. ELECT

Ans. B

Sol. Since, in the given word 'INTELLECTUAL' letter 'M' is not present. So, Word 'LAME' cannot be formed.

9.

|||Common||| **Direction:** are based on the following information.

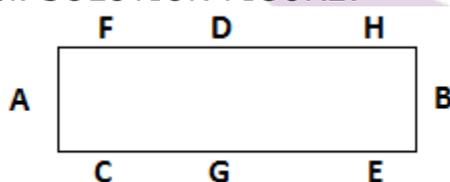
Eight executives A, B, C, D, E, F, G and H are attending a meeting around the rectangular table. 'E' is sitting second to the right of 'C'. Whereas 'C' is sitting right to 'A' which is to the right of 'F'. A is sitting just opposite to 'B'. 'D' is sitting in between 'F' and 'H'. None of them are sitting on the corners. Equal number of executives are sitting on opposite sides of table. Three executives are sitting on one side of table. |||End|||

What is the position of 'G' in respect of 'C'? A. Just opposite

- B. Immediate right
- C. Immediate left
- D. Second to its right

Ans. B

Sol. SOLUTION FIGURE:



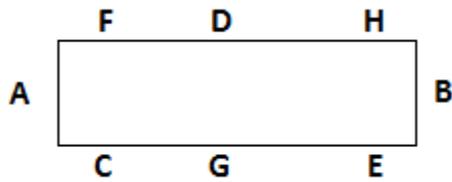
'G' position in respect of 'C' is immediate right. Any other option cannot form the right position.

10. Who is sitting in between C and E?

- A. B
- B. F
- C. G
- D. H

Ans. C

Sol. SOLUTION FIGURE:



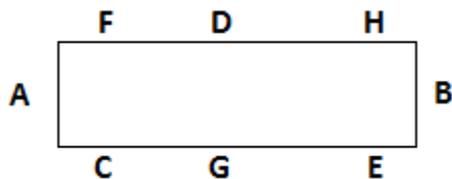
G is sitting between C and E. No other person is A, B, D, F, H are not sitting between C and E

11. Who is sitting immediate right to D?

- A. H
- B. A
- C. B
- D. F

Ans. D

Sol. SOLUTION FIGURE:



F is sitting immediate to D. No other person is sitting i.e. A, B, C, E, G, H are not sitting immediate right to D.

12.5 people participated in a race. Ankit finished the race just behind Dheeraj. Piyush completed the race just before Aditya. Aman completed the race just before Piyush. Aman came in third place. Which of the following has got second place in the race?

- A. Piyush
- B. Dheeraj
- C. Ankit
- D. Aditya

Ans. C

Sol.

According to question:

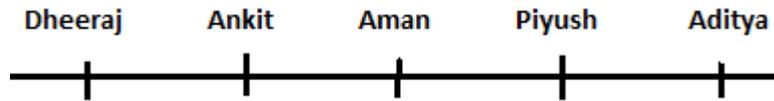
5 people participated in the race.

Case 1. Aman came to third place among 5 people.

Case 2. Aman completed the race just before Piyush it means Piyush comes to 4th.

Case 3. Piyush completed the race just before Aditya. So, Aditya comes to 5th place.

Case 4. Ankit finished the race just behind Dheeraj that means Dheeraj comes to 1st place and Ankit comes 2nd.



Hence, the correct answer is Ankit.

13. Find the missing term in the following letter series.
STV, XYA, _____, HIK, MNP
- A. DEF
 - B. BCA
 - C. YBC
 - D. CDF

Ans. D

Sol.

$S + 1 = T, T + 2 = V \rightarrow STV$

Now, $V + 2 = X =$ First Letter of Second term

$X + 1 = Y, Y + 2 = A \rightarrow XYA$

Similarly, Third term will start from $A + 2 = C$

$C + 1 = D, D + 2 = F \rightarrow CDF$

14. Find the missing term in the following letter-cluster series given below:
HN22, PT36, XZ50, ? , NL26
- A. EF12
 - B. FF12
 - C. FF11
 - D. FE12

Ans. B

Sol.

As per the question:

H (8)	N (14)	$8 + 14 = 22$
$\downarrow +8$	$\downarrow +6$	
P (16)	T (20)	$16 + 20 = 36$
$\downarrow +8$	$\downarrow +6$	
X (24)	Z (26)	$24 + 26 = 50$
$\downarrow +8$	$\downarrow +6$	
F (6)	F (6)	$6 + 6 = 12$
$\downarrow +8$	$\downarrow +6$	
N (14)	L (12)	$14 + 12 = 26$

Missing term is "FF12".

15.If "+" means "x", "-" means "+", "x" means "÷" and "÷" means "-", then $18 + 6 - 2 \times 3 \div 5 = ?$

- A. $103\frac{2}{3}$
- B. 20
- C. 30
- D. 40

Ans. A

Sol. $18 + 6 - 2 \times 3 \div 5 = ?$

If "+" means "x", "-" means "+", "x" means "÷" and "÷" means "-", then

$$18 \times 6 + 2 \div 3 - 5$$

$$= 18 \times 6 + \frac{2}{3} - 5$$

$$= 108 + \frac{2}{3} - 5$$

$$= 103 + \frac{2}{3} = \frac{311}{3} = 103\frac{2}{3}$$

16.If '÷' means '+', '-' means 'x'; '+' means '-' and 'x' means '÷', then $14 - 4 \times 7 \div 12 + 8 = ?$

- A. 20
- B. 12
- C. 8
- D. None of these

Ans. B

Sol.

$$14 - 4 \times 7 \div 12 + 8 = ?$$

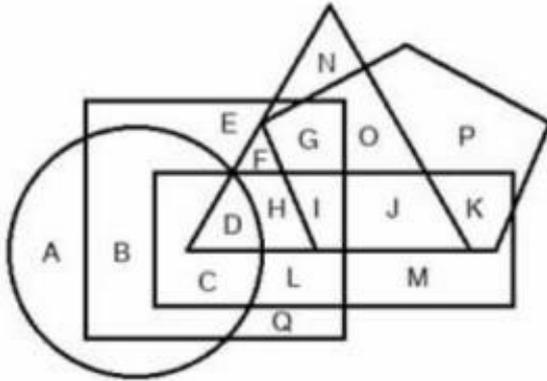
By changing the signs

$$14 \times \frac{4}{7} + 12 - 8$$

$$8 + 12 - 8 = 12$$

17.In the following figure, triangle represents fresher, circle represents experience, pentagon represents highly qualified, rectangle represents company and square represents employee.

What does letter I represents?



- A. Companies which hire employees who are fresher and experienced but not highly qualified
- B. Companies which hire employees who are experienced and highly qualified
- C. Companies which hire employees who are fresher and highly qualified
- D. Companies which hire employees who are fresher and experienced and highly qualified

Ans. C

Sol.

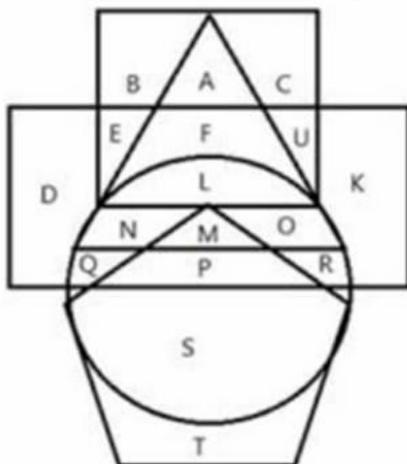
As per the question:

Letter, 'I' comes in square, rectangle, pentagon, and triangle.

So, Companies which hire employees who are fresher and highly qualified.

18. In the following figure, triangle represents international news, circle represents regional news, pentagon represents local news, rectangle represents political news and square represents economic news.

What does letter M' represents?



- A. Political news, local news, economic news, and regional news but not international news.
- B. International news, political news, local news, and regional news but not economic news.
- C. Political news, regional news, and local news only.
- D. International news, political news, economic news, and regional news but not local news.

Ans. C

Sol.

As per the question:

Letter 'M' is in pentagon, rectangle, and circle.

Pentagon = Local news

Rectangle = Political news

Circle = Regional news

Hence, the correct answer is option C.

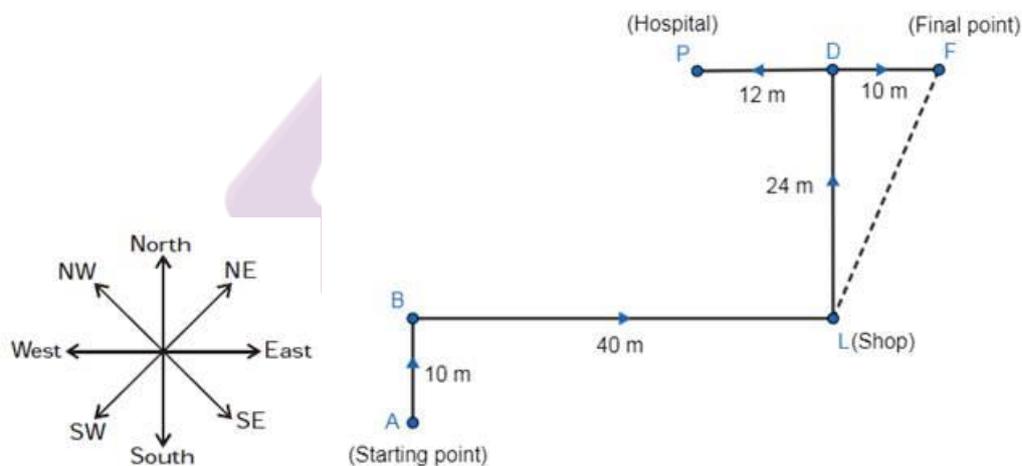
19. Rajesh is walking towards north. After walking 10 meters, he turns right and walks 40 metres to reach shop L. Now turns left and walks 24 metres. He again turns left and walks 12 metres to reach hospital P. Now finally he walks 22 metres in his backward direction. How far and in which direction is shop L from his final point?

- A. 28 metre, South west
- B. 28 metre, North west
- C. 26 metre, North west
- D. 26 metre, South west

Ans. D

Sol.

According to the information, given in the question:



From the direction diagram we can say shop L is in south-west of final point.

Required distance = FL

$$= \sqrt{FD^2 + DL^2}$$

$$= \sqrt{10^2 + 24^2}$$

$$= \sqrt{676}$$

$$= 26 \text{ m}$$

Hence, the correct answer is 26 m, south west.

20. My friend was born on 4th December. I am elder to him by 20 days. This year the children day is on Thursday, on which day my birthday fall?

- A. Saturday
- B. Thursday
- C. Monday
- D. Sunday

Ans. B

Sol. Given,

My friend was born on 4th December. I am elder to him by 20 days.

According to the question:

Then, I was born on 14th November.

Children's day on Thursday means 14 November is Thursday.

Hence, 15 November is Thursday.

Then, my birthday falls on Thursday.

