

## Reasoning

**Q1** In the following question, five words have been given out of which four are alike in some manner, while the fifth one is different.

Choose out the odd one.

- (A) Deck (B) Quay  
(C) Stern (D) Bow

**Q2** Select the option that is related to the third term in the same way as the second term is related to the first term.

Ship : Harbour    Aeroplane : ?

- (A) Runway (B) Hangar  
(C) Control tower (D) Destination

**Q3** In each of the following questions, a series is given. Find the term that will replace the question mark.

22, 24, 28, ?, 52, 84

- (A) 40 (B) 36  
(C) 46 (D) 34

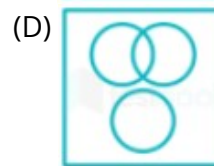
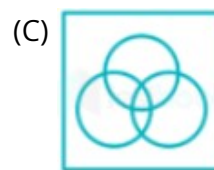
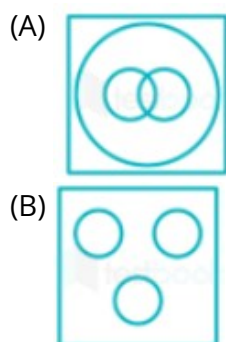
**Q4** Select the option that is related to the third word in the same way as the second word is related to the first word.

Cricket : Pitch :: Golf : ?

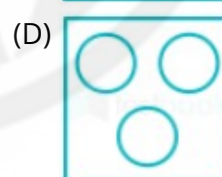
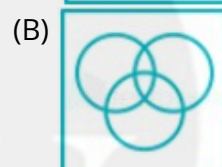
- (A) Arena (B) Track  
(C) Court (D) Course

**Q5** Identify the diagram that best represents the relationship among the given classes.

Father, Uncle, Man



**Q6** Select the Venn diagram that best illustrates the relationship between the following classes. Village people, Educated people, Intelligent people



**Q7** In the following question, select the odd number pair from the given alternatives.

- (A) 4 - 16 (B) 5 - 24  
(C) 6 - 36 (D) 7 - 49

**Q8** Find the missing number from the below options.

6	7	169
8	3	?
10	9	361

- (A) 101 (B) 111



(C) 144

(D) 121

- Q9** Study the given pattern carefully and select the number that can replace the question mark (?) in it.



(A) 11

(B) 21

(C) 23

(D) 13

- Q10** Which number will complete the series?

11, 13, 17, 19, 23, 25, \_\_\_\_

(A) 25

(B) 27

(C) 29

(D) 31

- Q11** Find the missing number from the below options.

9	28	85
12	37	?
16	49	148

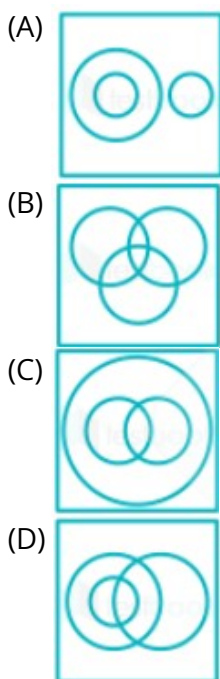
(A) 96

(B) 140

(C) 134

(D) 112

- Q12** Identify the diagram that best represents the relationship among classes given below  
Vegetable, Tomato, Spinach



- Q13** Which of the following options best suit the Venn diagram given in the figure?



(A) Girls, Female, Cricket players

(B) Car, Engineer, Male

(C) Table, Furniture, Chair

(D) Animal, Birds, Tree

- Q14** Find the odd one out:

(A) 27

(B) 64

(C) 81

(D) 125

- Q15** Pointing towards a person, a man said to a woman, "His mother is the only daughter of your father." How is the woman related to that person?

(A) Daughter

(B) Sister

(C) Mother

(D) Wife

- Q16** What is the angle degree between the hands of the clock at 10 25 am?

(A) 130

(B) 150

(C) 162.5

(D) None of the above

- Q17** What is the angle made by the minute and hour hand of a clock at 5.20 am ?

(A) 50°

(B) 60°

(C) 40°

(D) 20°

- Q18** A number has been denoted to each of the given letters. Select the option from the following four possible arrangements of these numbers that forms a meaningful word.

E = 1, N = 2, T = 3, S = 4, T = 5, D = 6, U = 7

(A) 4,3,7,6,1,2,5

(B) 2,1,4,3,6,7,5

(C) 4,3,7,1,6,5,2

(D) 2,1,4,6,3,5,7

- Q19** In a certain code language, "LAND" is written as "LBPG" and "JEAN" is written as "JFCQ". How



will

"HOME" be written in that language?

(A) HQNH

(B) HPOH

(C) HQOG

(D) HPNG

**Q20** Parth said pointing to a photograph of a boy, 'he is the only son of my father's brother's son, if so how is the boy related to Parth?

(A) Cousin

(B) Father

(C) Nephew

(D) Son

**Q21** Rearrange the jumbled-up letters in a meaningful sequence and find the odd one out.

(A) TGMANSRA

(B) BILEMO

(C) HTWSPAPA

(D) BKFOCEO

**Q22** Which of the mathematical signs should be interchanged in the below equation to make it mathematically correct?

$$4 \div 32 + 8 \times 9 - 5 = 35$$

(A)  $\times$  and  $-$

(B)  $\div$  and  $+$

(C)  $\div$  and  $\times$

(D)  $\times$  and  $+$

**Q23** P, Q, R, S and T sit around a table. P sits in the second seat to the left of R and Q sits in the second seat to the right of R. If S sits between Q and R, who is sitting to the immediate right of P?

(A) R

(B) S

(C) T

(D) Q

**Q24** In a certain code language, if PLANE is coded as RJCLG, then how will TRAIN be coded?

(A) USBKO

(B) VTCJP

(C) VPCGP

(D) VPCHP

**Q25** If '@' denotes ' $\times$ ', '#' denotes ' $-$ ', '\$' denotes ' $+$ ' and '%' denotes ' $\div$ ', then, what will come in place of the question mark (?) in the following equation?

$$8 \$ 14 @ 5 \# 56 \% 7 = ?$$

(A) 60

(B) 90

(C) 80

(D) 70



# Answer Key

Q1 D  
Q2 B  
Q3 B  
Q4 D  
Q5 A  
Q6 B  
Q7 B  
Q8 D  
Q9 D  
Q10 C  
Q11 D  
Q12 A  
Q13 A

Q14 C  
Q15 C  
Q16 C  
Q17 C  
Q18 A  
Q19 B  
Q20 C  
Q21 B  
Q22 B  
Q23 C  
Q24 C  
Q25 D



# Hints & Solutions

Note: scan the QR code to watch video solution

## Q1 Text Solution:

The logic followed here is:

Quay, Stern, and Deck are related to static locations or fixed positions in relation to a boat or ship's structure or docking area,

Whereas,

Bow: to bend your head or the upper part of your body forward and down, as a sign of respect

So, the odd one out is "Bow".

**Hence, the correct answer is "Bow".**

## Q2 Text Solution:

Harbour is a place on the coast where ships may moor in shelter,

Similarly,

In the same a Hangar is a large building with an extensive floor area, typically for housing aircraft.

**Hence, Hangar is the correct answer.**

## Q3 Text Solution:

Differences of the successive numbers are in a geometric progression.

The pattern is +2, +4, +8, +16, +32 .. So, missing term =  $28 + 8 = 36$

**Hence, 36 is the correct answer.**

## Q4 Text Solution:

The logic followed here is :-

Cricket is played on pitch.

Similarly,

Golf is played on course.

**Hence, the correct answer is "Course".**

## Q5 Text Solution:

The diagram which best represents the relationship among the Father, Uncle, Man is

given below:



1.all uncle and Father are men.

2. Some father could be uncle and some uncle could be father.

**Hence, the correct answer is "Option (1)".**

## Q6 Text Solution:

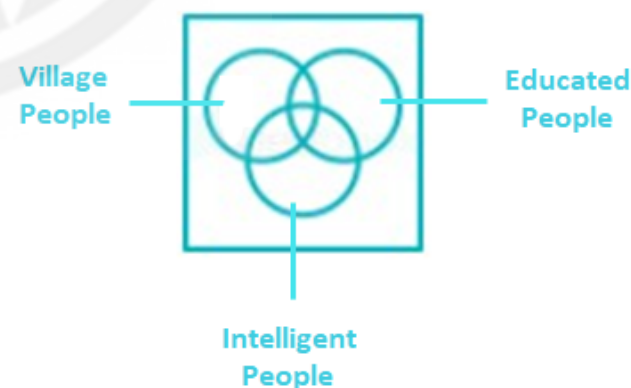
Given relationships are : Village people, Educated people, Intelligent people

Some Village people are Intelligent people and Educated people.

Some Educated people are Intelligent people and Village people.

Some Intelligent people are Village people and Educated people.

The least possible Venn diagram for given relationship is as follows :-



**Thus, the correct answer is "Option 2".**

## Q7 Text Solution:

Except 5 - 24, all follow the format ' $x - x^2$ ' such as:

$$4 - 4^2 = 16;$$



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$$6 - 6^2 = 36;$$

$$7 - 7^2 = 49;$$

$$\text{But } 5 - 5^2 = 25 \neq 24.$$

**Hence, 5 - 24 is different from other three responses.**

**Q8 Text Solution:**

Here, in this question we have to find the missing number in the given matrix.

Logic:

$$(1st\ number + 2nd\ number)^2 = 3rd\ number$$

- In the first row.

$$= (6 + 7)^2 = 13^2 = 169$$

- In the third row.

$$= (10 + 9)^2 = 19^2 = 361$$

Similar,

- In the second row.

$$= (8 + 3)^2 = 11^2 = 121$$

**Hence, the correct answer is '121'**

**Q9 Text Solution:**

The logic is:

$$25 \times 5 - 5 = 120$$

$$23 \times 7 - 7 = 154$$

Similarly,

$$? \times 13 - 13 = 156$$

$$= ? \times 13 = 156 + 13$$

$$= ? \times 13 = 169$$

$$= ? = 13$$

Hence, "13" is the correct answer

**Q10 Text Solution:**

The logic followed in this question is as follows:

$$11 + 2 = 13$$

$$13 + 4 = 17$$

$$17 + 2 = 19$$

$$19 + 4 = 23$$

$$23 + 2 = 25$$

$$25 + 4 = 29$$

**Hence, 29 is the correct answer.**

**Q11 Text Solution:**

The logic followed here is:

In a row:

$$2nd\ number = (First\ Number \times 3) + 1,$$

$$3rd\ number = (First\ Number \times 9) + 4$$

For Row 1 9, 28, 85

$$2nd\ number = (9 \times 3) + 1 = 27 + 1 = 28$$

$$3rd\ number = (9 \times 9) + 4 = 81 + 4 = 85$$

For Row 3 16, 49, 148

$$2nd\ number = (16 \times 3) + 1 = 48 + 1 = 49$$

$$2nd\ number = (16 \times 9) + 4 = 144 + 4 = 148$$

Similarly,

For Row 2 12, 37, ?

$$2nd\ number = (12 \times 3) + 1 = 36 + 1 = 37$$

$$2nd\ number = (12 \times 9) + 4 = 108 + 4 = 112$$

**Hence, the correct answer is "112".**

Alternate Method

First row:  $9 + 19 = 28$  and  $28 + 57 = 85$  where 57

$$= 19 \times 3$$

Third row:  $16 + 33 = 49$  and  $49 + 99 = 148$

where  $99 = 33 \times 3$

Similarly,

Second row:  $12 + 25 = 37$  and  $37 + 75 = 112$

where  $75 = 25 \times 3$

**Hence, the missing number is 112.**

**Q12 Text Solution:**

Spinach is a vegetable but tomato is not.

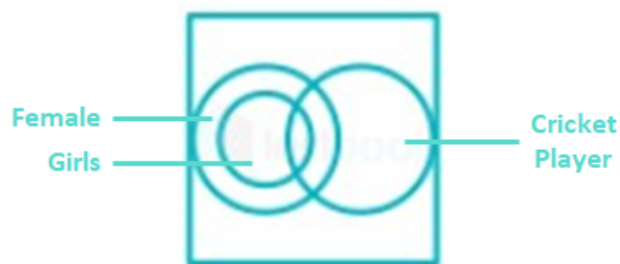
The correct Venn diagram representation is,

**Hence, option 1 is the correct answer.**

**Q13 Text Solution:**



Girls, Female, Cricket players represent the venn diagram.



Hence, correct answer is Girls, Female, Cricket players.

**Q14 Text Solution:**

27, 64 and 125 are cubes of 3, 4 and 5.

Whereas,

81 is the square of 9.

**Hence, "81" is the odd one out.**

**Q15 Text Solution:**

Given,

Pointing towards a person, a man said to a woman, "His mother is the only daughter of your father."

**+ means Male**  
**- means Female**

**Father<sup>+</sup>**

|

**Mother<sup>-</sup>**

|

**Person**

Therefore, the woman is the mother of that person.

**Hence, the correct answer is Mother.**

**Q16 Text Solution:**

Angle traced by hour hand in 125/12 hours =  
 $(360 \div 12) \times (125 \div 12) = 312 \frac{1}{2}$  degree

Angle traced by minute hand in 25 minute =  
 $(360 \div 60) \times 25 = 150$  degree

Now, Reflex Angle =  $360 - (312 \frac{1}{2} - 150) = 360 -$

$162 \frac{1}{2} = 197 \frac{1}{2}$  degree

Angle + Reflex Angle = 360

Angle +  $197 \frac{1}{2} = 360$

Angle =  $360 - 197 \frac{1}{2}$

Angle =  $162 \frac{1}{2}$

**Hence, the correct answer is 162.5 degree.**

**Q17 Text Solution:**

The logic follows here is:

The angle between the hour hand and the minute hand when the clock shows 5:20 can be calculated using the following formula:

Angle =  $[(11 / 2) M - 30 H]$

Where, M = minutes and H = hours

Here, M = 20, H = 5.

Therefore, we get angle =  $(30 \times 5 - 11 / 2 \times 20)$   
 $150 - 110 = 40^\circ$

**Hence, the correct answer is "40°".**

**Q18 Text Solution:**

Given: E = 1, N = 2, T = 3, S = 4, T = 5, D = 6, U = 7

Option 1: 4,3,7,6, 1,2,5 - Forms the word "STUDENT".

Option 2: 2,1,4,3,6,7,5 - Forms the word "NESTDUT". This is not a meaningful word in English.

Option 3: 4,3,7,1,6,5,2 - Forms the word "STUEDTN". This is a misspelled version of the correct word "STUDENT"

Option 4: 2,1,4,6,3,5,7 - Forms the word "NESDTTU". This is not a meaningful word in English, and the use of the number 7 instead of the letter U makes it clear that this is not a valid answer.

**Hence, the correct answer is "Option 1".**

**Q19 Text Solution:**





Given

"LAND" is written as "LBPG"

+0	+1	+2	+3
L	A	N	D
↓	↓	↓	↓
L	B	P	G

"JEAN" is written as "JFCQ".

+0	+1	+2	+3
J	E	A	N
↓	↓	↓	↓
J	F	C	Q

Similar,

"HOME" be written as ?

+0	+1	+2	+3
H	O	M	E
↓	↓	↓	↓
H	P	O	H

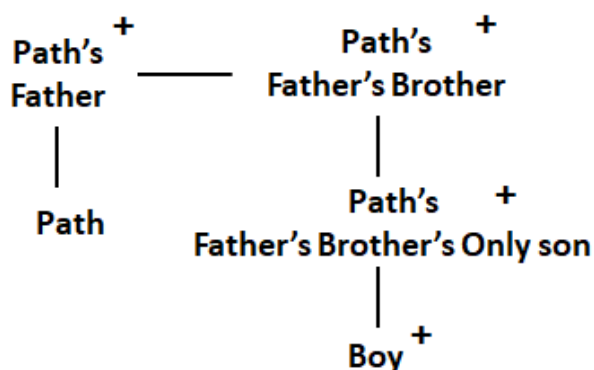
Hence, the correct answer is "HPOH"

## Q20 Text Solution:

Preparing the family tree using the following symbols:

Parth said pointing to a photograph of a boy, 'he is the only son of my father's brother's son, if so how is the boy related to Parth?

**+ means Male**  
**- means Female**



Hence, Boy is nephew of Path.

## Q21 Text Solution:

Let's unjumbled the given options:

- (1) TGMAINSRA INSTAGRAM
- (2) BILEMO MOBILE
- (3) BKFOCEOA FACEBOOK
- (4) HTWSPAPA WHATSAPP

Thus, MOBILE is not an application but a device whereas INSTAGRAM, FACEBOOK and WHATSAPP are social networking applications.

Hence, BILEMO is the odd one out.

## Q22 Text Solution:

Given:

$$4 \div 32 + 8 \times 9 - 5 = 35$$

Calculation:

Option II: exchange  $\div$  and  $+$

$$4 + 32 \div 8 \times 9 - 5$$

$$4 + 4 \times 9 - 5$$

$$4 + 36 - 5$$

$$40 - 5$$

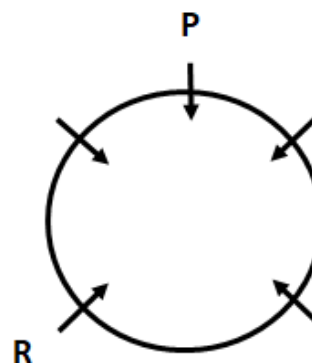
$$35 = 35$$

This is correct the equation.

**Interchanges  $\div$  and  $+$  would make the given equation correct.**

## Q23 Text Solution:

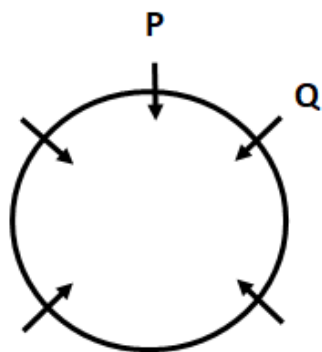
P sits in the second seat to the left of R



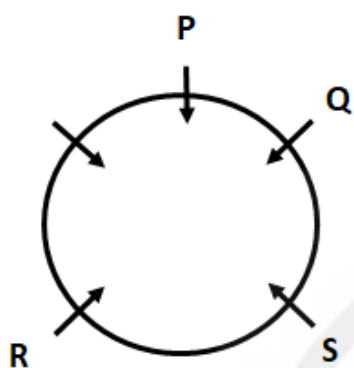
Q sits in the second seat to the right of R



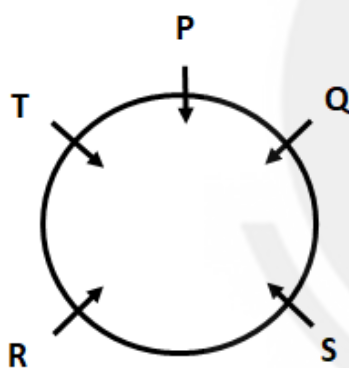




If S sits between Q and R



The position left for "T"



"T" is sitting to the immediate right of "P".  
Hence, the correct answer is "option (3)".

#### Q24 Text Solution:

The pattern followed here is,

+2 -2 +2 -2 +2  
P L A N E  
↓ ↓ ↓ ↓ ↓  
R J C L G

Similarly,

+2 -2 +2 -2 +2  
T R A I N  
↓ ↓ ↓ ↓ ↓  
V P C G P

Hence, the correct answer is "VPCGP".

#### Q25 Text Solution:

The pattern followed here is,

Symbol	@	#	\$	%
Meaning	×	—	+	÷

$$= 8 \$ 14 @ 5 \# 56 \% 7$$

$$= 8 + 14 \times 5 - 56 \div 7$$

$$= 8 + 14 \times 5 - 8$$

$$= 8 + 70 - 8$$

$$= 8 + 62$$

$$= 70$$

Hence, the correct answer is 70.





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