

Reasoning

- Q1** Study the given pattern carefully and select the number that can replace the question mark (?) in it.

(16,4,4)

(30,5,15)

(8,2, ?)

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(A) 2

(B) 3

(C) 4

(D) 5

- Q2** Select the option that represents the correct order of the given words as they would appear in an English dictionary.

Warriors

Warehouse

Warcraft

Warranty

Wardrobe

Wardenship

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

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

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

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

- Q3** Three statements are given, followed by four conclusions numbered I, II, III and IV. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some desks are trays.

Some trays are plates.

Some plates are desks.

Conclusions:

All desks are plates.

All plates are desks.

Some plates are trays

All trays are desks.

(A) Only conclusion III follows

(B) Only conclusion IV follows

(C) Only conclusion II follows

(D) Only conclusion I follows

- 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.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Skin : Touch :: Nose : ?

(A) Smell

(B) Taste

(C) Nose ring

(D) Sweat

- Q5** Ganesh was taking a walk with his mother's brother's father's granddaughter. Who was he walking with?

(A) Daughter

(B) Mother

(C) Cousin

(D) Granddaughter

- Q6** Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

T e 2 9 E K P

M ————— N

(A) T e 2 9 E K P

(B) T e 2 9 E K P

(C) P K E 9 2 e T



(D) **1 6 5 3 E K B**

Q7 Which of the following letter-clusters will replace the question mark (?) in the given series?

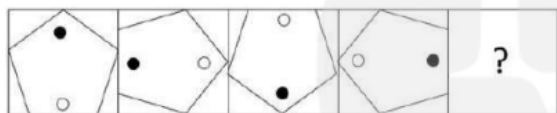
UV, OY, IB, EE, ?

- (A) ZK (B) AH
(C) BI (D) BH

Q8 The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number-pairs except one. Find that odd number-pair.

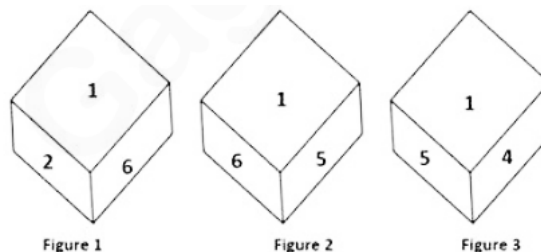
- (A) 20 : 11
(B) 6 : 4
(C) 15 : 9
(D) 12 : 7

Q9 Select the figure from among the given options that can replace the question mark (?) in the following series.



- (A)
- (B)
- (C)
- (D)

Q10 Three different positions of the same dice are shown. Find the number on the face opposite the face showing '1'.



- (A) 6 (B) 2
(C) 3 (D) 4

Q11 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed).

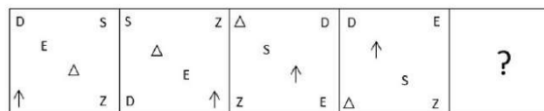
- (55,11,25)
(64,16,16)
(A) (33,11,9) (B) (33,11,22)
(C) (33,11,3) (D) (33,11,10)

Q12 Select the option that is related to the sixth letter-cluster in the same way as the first letter-cluster is related to the second letter-cluster and the third letter-cluster is related to the fourth letter-cluster.

HMD : KOE :: BNQ : EPR :: ? : FLV

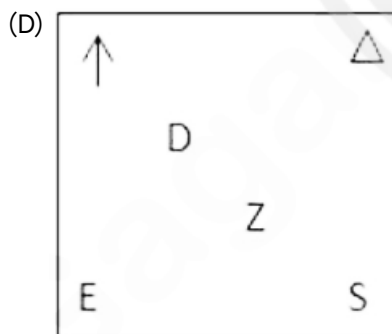
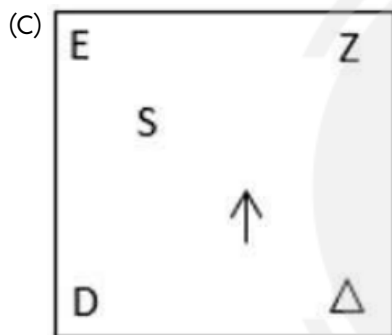
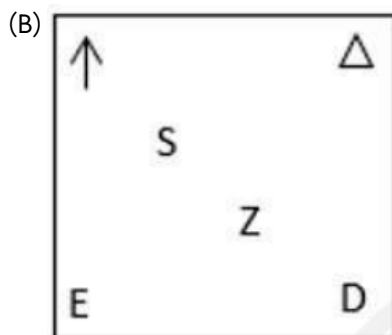
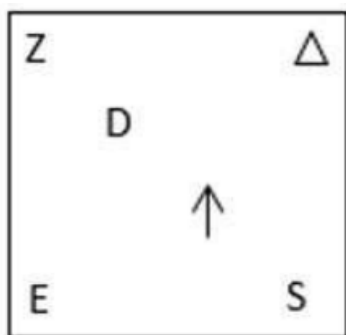
- (A) SJE (B) UJC
(C) EJS (D) CJU

Q13 Select the figure from the options that can replace the question mark (?) and complete the given pattern.



(A)

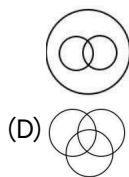




Q14 Select the Venn diagram that best illustrates the relationship between the following classes.

Ticket, Aeroplane, Rail

- (A)
- (B)
- (C)



Q15 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

- (A) BFJN
(B) DHLP
(C) HJKP
(D) JNRV

Q16 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

5 : 45 :: 3 : 3 :: 6 : ?

- (A) 90
(B) 106
(C) 110
(D) 96

Q17 Which of the following numbers will replace the question mark (?) in the given series?

8, 15, 26, ?, 56, 75

- (A) 39
(B) 41
(C) 35
(D) 43

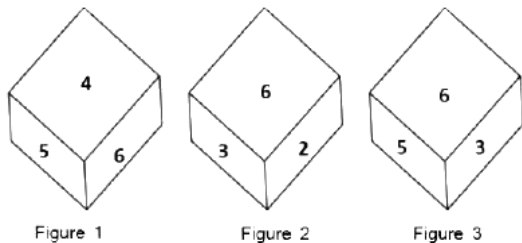
Q18 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term

7183 : 3850 :: 6957 : ? :: 8972 : 5639

- (A) 3426
(B) 3624
(C) 3246
(D) 3642

Q19 Three different positions of the same dice are shown. Find the number on the face opposite the face showing 4.





- (A) 5 (B) 6
(C) 2 (D) 3

Q20 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

625: 5:: 2560: 8:: 5000: ?

- (A) 9 (B) 12
(C) 10 (D) 15

Q21 In a certain code language, 'ASK' is written as ' 62 ' and 'BYE' is written as ' 64 '. How will 'CRY' be written in that language?

- (A) 68 (B) 72
(C) 86 (D) 92

Q22 Select the correct combination of mathematical signs that can sequentially replace the " " signs and balance the given equation.

$256 * 4 * 9 * 3 * 14 = 51$

- (A) $\times, +, -, +$
(B) $\div, \times, -, +$
(C) $\times, \div, \times, +$
(D) $\div, -, \times, +$

Q23 Select the option that represents the letters that, when placed from left to right in the following blanks, will complete the letter-series.

CL _VEC_ _WECLO_ _C_O_E

- (A) OLPXELY (B) OLOYELZ
(C) OLOXFMY (D) OLOXELY

Q24 In a certain code language, 'TABLE' is coded as ELEAT and 'SWING' is coded as GNLWS. How will 'FRAME' be coded in the same language?

- (A) EMERF
(B) EMDRF
(C) ERMDF

(D) MEDFR

Q25 Which two signs should be interchanged to make the given equation correct?

$588 \div 28 \times 32 + 72 - 160 = 760$

- (A) - and +
(B) - and \div
(C) + and \times
(D) + and \div



Answer Key

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

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



Hints & Solutions

Q1 Text Solution:

Logic used: (Second number \times 3) + Third number
= First number.

As,

$$(16, 4, 4) = (4 \times 3) + 4 = 12 + 4 = 16$$

Similarly,

$$(30, 5, 15) = (5 \times 3) + 15 = 15 + 15 = 30$$

And,

$$(8, 2, ?) = (2 \times 3) + 2 (= ?) = 6 + 2 = 8$$

Hence, 2 is the correct answer.

Q2 Text Solution:

Here, in this question we have to arrange the given word according to the dictionary orders.

Let's arrange the according to English.

3. Warcraft
6. Wardenship
5. Wardrobe
2. Warehouse
4. Warranty
1. Warriors

Hence, 3,6,5,2,4,1 is the correct answer.

Q3 Text Solution:

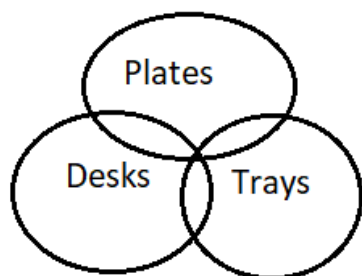
Here, in this question we have to find that which of the following conclusion is followed here.

Statements:

Some desks are trays.

Some trays are plates.

Some plates are desks.



Conclusions:

All desks are plates - **Does not follow** - As, some desks are trays and some trays are plates. So all desks are plates is not definitely followed.

All plates are desks - **Does not follow** - As, some plates are desks. So, all plates are desks is not definitely followed.

Some plates are trays - **Follow** - As, some trays are plates. So, some plates are trays is definitely followed.

All trays are desks - **Does not follow** - As, some desks are trays. So, all trays are desks is not definitely followed.

Hence, Only conclusion III follows is the correct answer.

Q4 Text Solution:

Here, in this question we have to Select the option that is related to the third word in the same way as the second word is related to the first word.

Given:

- Skin : Touch

= While touch the skin we sense that someone touch us.

Similarly,

- Nose : ?

= We use our nose to smell something.

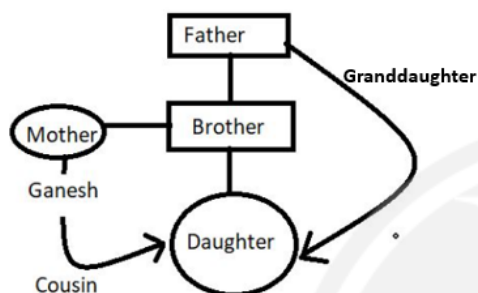
Hence, Smell is the correct answer.

Q5 Text Solution:

Here, in this question we have to find Ganesh walking with whom.



Relation	Symbol
Male	□
Female	○
Married couple	==
Siblings	—
Difference of a generation	



Clearly, Ganesh is walking with his cousin.

Hence, 'Cousin' is the correct answer.

Q6 Text Solution:

Here, in this question we have to find the correct mirror image of the given question figure.

Logic:

- In the mirror image left side and right side changed and vice versa where the top and bottom remain the same.
- In a mirror image near an object appear far away and a far-away object appears near.

Given

T e 2 9 E K P

M ————— N

Detailed Explanation,

T e 2 9 E K P

M ————— N

1 6 5 8 E K 6

Hence, Option D is the correct answer.

Q7 Text Solution:

Here, in this question we have to find the correct word in the given series.

Logic: Subtraction of vowels series a, e, i, o, u.

Given: UV, OY, IB, EE, ?

	U	V
next vowels		+3
	O	Y
next vowels		+3
	I	B
next vowels		+3
	E	E
next vowels		+3
	A	H

Hence, 'AH' is the correct answer.

Q8 Text Solution:

Here, in this question we have to find the odd one out from the given alternative number.

Logic: (Second number $\times 2$) - 2 = First number.

Let's check the options one by one.

- 20 : 11
 $= (11 \times 2) - 2$
 $= 22 - 2 = 20$
- 6 : 4
 $= (4 \times 2) - 2$
 $= 8 - 2 = 6$
- 15 : 9
 $= (9 \times 2) - 2$
 $= 18 - 2 = 16$ Not equal to 15
- 12 : 7
 $= (7 \times 2) - 2$



$$= 14 - 2 = 12$$

Hence, 15 : 9 is the correct answer.

Q9 Text Solution:

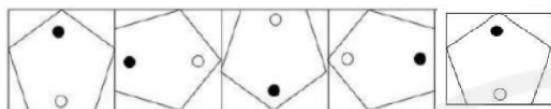
Here, in this question we have to find the next figure in the given figure series.

Given:



Detailed Explanation:

1) Figure is rotated 90 degree clockwise direction in every next figure.

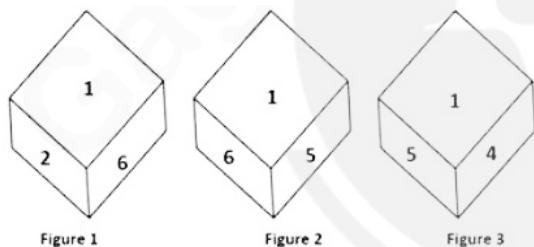


Hence, Option B is the correct answer.

Q10 Text Solution:

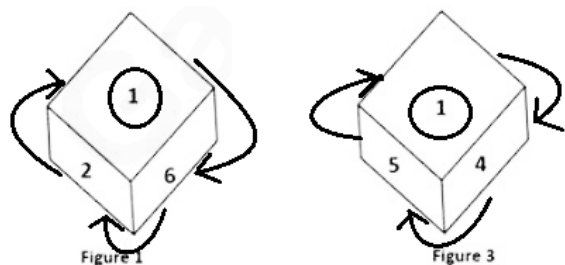
Here, in this question we have to find which number is facing opposite to '1'.

Given:



Detailed Explanation

From figure (1) and (3)



Here, 1 is common in both dice, 2 is the opposite of 5, and 6 is the opposite of 4.

Opposite pairs are:

$$6 = 4$$

$$2 = 5$$

$$1 = 3$$

Clearly, 3 is the number of opposite 1.

Hence, 3 is the correct answer.

Q11 Text Solution:

Here, in this question we have to find the correct set of number which follow the same logic.

Logic: (Second number $\times \sqrt{\text{Third number}}$) =

First number

$$\bullet (55, 11, 25)$$

$$= (11 \times \sqrt{25})$$

$$= 11 \times 5 = 55$$

and,

$$\bullet (64, 16, 16)$$

$$= (16 \times \sqrt{16})$$

$$= 16 \times 4 = 64$$

Similarly,

By option (A),

$$\bullet (33, 11, 9)$$

$$= (11 \times \sqrt{9})$$

$$= 11 \times 3 = 33$$

Hence, (33, 11, 9) is the correct answer.

Q12 Text Solution:

Here in this question we have to Select the option that is related to the sixth letter-cluster in the same way as the first letter-cluster is related to the second letter-cluster and the third letter-cluster is related to the fourth letter-cluster.

Logic: Addition of +3 +2 +1 in the first, second, and third alphabet.

HMD : KOE

(8) H	(13) M	(4) D
+3 ↓	+2 ↓	+1 ↓
K	O	E
(11)	(15)	(5)

And,

BNQ : EPR

(2) B	(14) N	(17) Q
+3 ↓	+2 ↓	+1 ↓
E	P	R
(5)	(16)	(18)



Similarly,

? : FLV

(3)	(10)	(21)
C	J	U
+3↓	+2↓	+1↓
F	L	V
(6)	(12)	(22)

Hence, 'CJU' is the correct answer.

Q13 Text Solution:

In this type of question, we have been given a series. In this series we have to find the missing figure of this series by finding the relation.

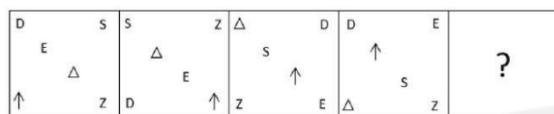


Figure 1 to Figure 2

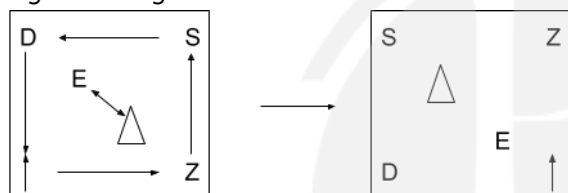


Figure 2 to Figure 3

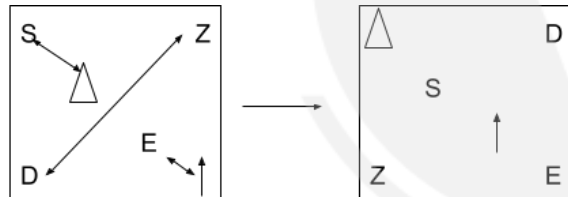


Figure 3 to Figure 4

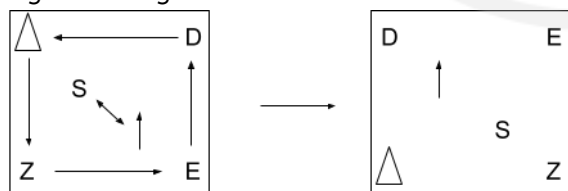
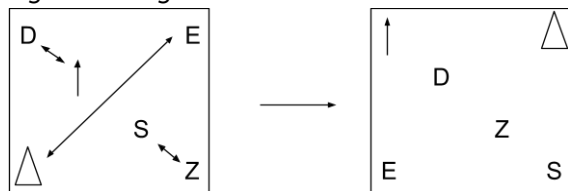
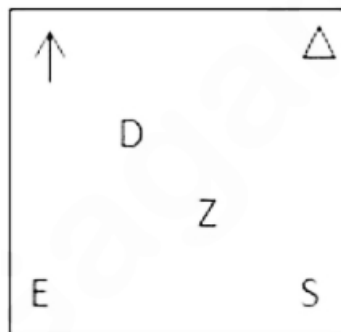


Figure 4 to Figure 5



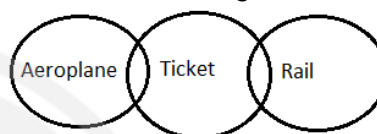
So the next image is



Hence, "Option D" is the correct answer.

Q14 Text Solution:

Here, in this question we have to select the Venn diagram that best illustrates the relationship between the following classes.



- Tickets are needed for travel by both Aeroplane and Rail.

Hence, Option A is the correct answer.

Q15 Text Solution:

Here, in this question we have to find the odd one out from the given alternatives.

Alphabet	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabet	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Logic: Addition of +4 in all letters.

Let's check each option one by one.

- BFJN

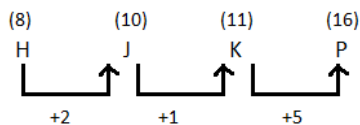
(2)	(6)	(10)	(14)
B	F	J	N
└─┐	└─┐	└─┐	└─┐
↑	↑	↑	↑
+4	+4	+4	

- DHLP

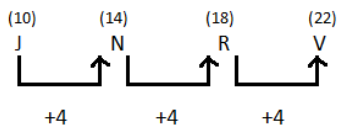
(4)	(8)	(12)	(16)
D	H	L	P
└─┐	└─┐	└─┐	└─┐
↑	↑	↑	↑
+4	+4	+4	

- HJKP





• JNRV



Hence, HJKP is the correct answer.

Q16 Text Solution:

We have been given that the second number is related to the first number, the 4th number is related to the 3rd number and the 5th number is related to the 6th number using some logic. We have to identify the logic and then have to find the 6th number.

Logic:-

$$1\text{st number} \times (1\text{st number} - 2)^2 = 2\text{nd number}$$

$$5 : 45$$

$$5 \times (5 - 2)^2 = 45$$

$$3 : 3$$

$$3 \times (3 - 2)^2 = 3$$

Similarly,

$$6 : ?$$

$$6 \times (6 - 2)^2 = ?$$

$$6 \times 4^2 = ?$$

$$6 \times 16 = ?$$

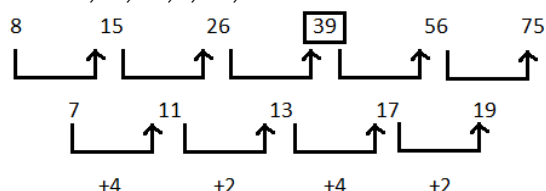
$$96 = ?$$

Hence, "96" is the correct answer.

Q17 Text Solution:

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

Given: 8, 15, 26, ?, 56, 75



Hence, 39 is the correct answer.

Q18 Text Solution:

here, in this question we have to Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

Logic: First number - 3333 = Second number

$$\bullet 7183 : 3850$$

$$= 7183 - 3333 = 3850$$

And,

$$\bullet 8972 : 5693$$

$$= 8972 - 3333 = 5639$$

Similarly,

$$\bullet 6957 : ?$$

$$= 6957 - 3333 = 3624$$

Hence, 3624 is the correct answer.

Q19 Text Solution:

We have been given three positions of a cube in this question, using this we have to find out which number will come opposite to 4.

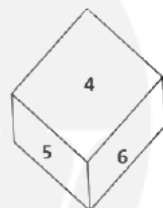


Figure 1

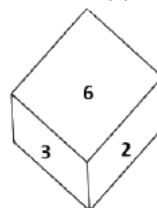


Figure 2

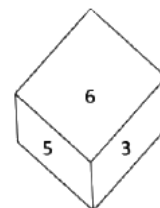


Figure 3

- In Figure 1 and Figure 3 have 5 and 6 common faces, hence the remaining faces will be opposite to each other.

So, 4 is the opposite to 3.

Hence, "3" is the correct answer.

Q20 Text Solution:

Here, in this question we have to Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

Logic: (Second number)³ × 5 = First number

$$\bullet 625 : 5$$

$$= (5)^3 \times 5$$

$$= 125 \times 5 = 625$$

and,

$$\bullet 2560 : 8$$



$$= (8)^3 \times 5$$

$$= 512 \times 5 = 2560$$

Similarly,

By option (C)

- $5000 : ?$

$$= (x)^3 \times 5 = 5000$$

$$(x)^3 = 5000/5$$

$$(x)^3 = 1000$$

$$(x) = 10$$

Hence, 10 is the correct answer.

Q21 Text Solution:

Here, in this question, we have to find the code of the given word 'CRY'.

Logic: Addition of place value $\times 2 =$ code.

- 'ASK' is coded as '62'

$$= A(1) + S(19) + K(11)$$

$$= 31 \times 2 = 62$$

And,

- 'BYE' is coded as '64'

$$= B(2) + Y(25) + E(5)$$

$$= 32 \times 2 = 64$$

Similarly,

- 'CRY' is coded as '92'

$$= C(3) + R(18) + Y(25)$$

$$= 46 \times 2 = 92$$

Hence, 92 is the correct answer.

Q22 Text Solution:

Here, in this question we have to interchange the sign and solve the given equation.

Logic: Solving with the help of **BODMAS** Rules.

Given: $256 * 4 * 9 * 3 * 14 = 51$

By option (D)

After putting the sign we get:

$$= 256 \div 4 - 9 \times 3 + 14 = 51$$

$$= 64 - 9 \times 3 + 14 = 51$$

$$= 64 - 27 + 14 = 51$$

$$= 78 - 27 = 51$$

$$= 51 = 51$$

Hence, \div , $-$, \times , $+$ is the correct answer.

Q23 Text Solution:

In this question we have to find the combination of letters that will complete the given series.

Given series:-

CL_VEC__WECLO__C_O_E

Option:- OLPXELY

CLOVE/CLPWE/CLOXE/CLOYE

(does not follow any pattern)

Option :- OLOYELZ

CLOVE/CLOWE/CLOYE/CLOZE

(does not follow any pattern)

Option :- OLOXFMY

CLOVE/CLOWE/CLOXE/CMOYE

(does not follow any pattern)

Option:- OLOXELY

CLOVE/CLOWE/CLOXE/CLOYE

(follow the pattern)

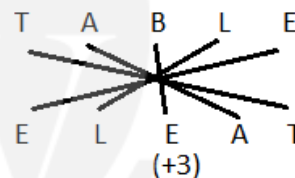
Hence, "OLOXELY" is the correct answer.

Q24 Text Solution:

Here, in this question we have to find the code of the given word 'FRAME'.

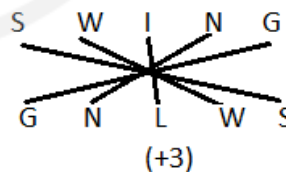
Alphabet	A	B	C	D	E	F	G	H	I	J	K	L	M
Positional value	1	2	3	4	5	6	7	8	9	10	11	12	13
Positional value	26	25	24	23	22	21	20	19	18	17	16	15	14
Alphabet	Z	Y	X	W	V	U	T	S	R	Q	P	O	N

- 'TABLE' is coded 'ELEAT'



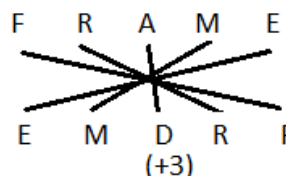
And,

- 'SWING' is coded 'GNLWS'



Similarly,

- 'FRAME' is coded 'EMDRF'



Hence, 'EMDRF' is the correct answer.

Q25 Text Solution:



Here, in this question we have to find the correct answer of the given equation.

Logic: Solve with the help of BODMAS Rules.

Given: $588 \div 28 \times 32 + 72 - 160 = 760$

After interchanging the sign we get:

$$= 588 \div 28 \times 32 - 72 + 160 = 760$$

$$= 21 \times 32 - 72 + 160 = 760$$

$$= 672 - 72 + 160 = 760$$

$$= 832 - 72 = 760$$

$$= 760 = 760$$

Hence, - and + is the correct answer.



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