

1. In each of the question,relationships between some elements are shown in the statements(s). These statements are followed by conclusions numbered I and II. Read the statements and give the answer.

Statements: I. $F = G > H = I \leq J$

Conclusions: I. $F > I$

(a) If only conclusion I follows.

(b) If only conclusion II follows.

(c) If either conclusion I or II follows

(d) If either conclusion I nor II follows

(e) If both conclusions I and II follow

Correct Choice: (a)

Solution:

I. $F > I$ (True)

II. $J > E$ (False)

2. Study the following information carefully and answer the question given below—Eight people viz. G, H, I, J, K, L, M and N lives in a Building on different floors from top to bottom (such as ground floor numbered as 1 and top is numbered as 8) but not necessarily in the same order. There is a gap of three floors between J and L and both of them lives on odd number of floor. N lives just above H, who lives on even numbered floor. I lives on floor number 6. Only one person lives between L and M. J lives above I. Three persons live between K and H. Who among the following lives on ground floor?

(a) N

(b) J

(c) K

(d) M

(e) None of these

Correct Choice: (d)

Solution:

FLOORS	PERSONS
8	K
7	J
6	I
5	N
4	H
3	L
2	G
1	M

3. Study the following information carefully and answer the question given below—Eight people viz. G, H, I, J, K, L, M and N lives in a Building on different floors from top to bottom (such as ground floor numbered as 1 and top is numbered as 8) but not necessarily in the same order. There is a gap of three floors between J and L and both of them lives on odd numbered floor. N lives just above H, who lives on even numbered floor. I lives on floor number 6. Only one person lives between L and M. J lives above I. Three persons live between K and H. Who among the following lives immediately below L?

(a) K

(b) H

(c) I

(d) G

(e) None of these

Correct Choice: (d)

Solution:

FLOORS	PERSONS
8	K
7	J
6	I
5	N
4	H
3	L
2	G
1	M

4. Study the following information carefully and answer the question given below—Eight people viz. G, H, I, J, K, L, M and N lives in a Building on different floors from top to bottom (such as ground floor numbered as 1 and top is numbered as 8) but not necessarily in the same order. There is a gap of three floors between J and L and both of them lives on odd number of floor. N lives just above H, who lives on even numbered floor. I lives on floor number 6. Only one person lives between L and M. J lives above I. Three persons live between K and H. How many persons lives between I and H?

(a) ONE

(b) THREE

(c) FIVE

(d) TWO

(e) None of these

Correct Choice: (a)

Solution:

FLOORS	PERSONS
8	K
7	J
6	I
5	N
4	H
3	L
2	G
1	M

5. Study the following information carefully and answer the question given below—Eight people viz. G, H, I, J, K, L, M and N lives in a Building on different floors from top to bottom (such as ground floor numbered as 1 and top is numbered as 8) but not necessarily in the same order. There is a gap of three floors between J and L and both of them lives on odd number of floor. N lives just above H, who lives on even numbered floor. I lives on floor number 6. Only one person lives between L and M. J lives above I. Three persons live between K and H. Who among the following lives on Top floor?

(a) N

(b) J

(c) K

(d) M

(e) None of these

Correct Choice: (c)

Solution:

FLOORS	PERSONS
8	K
7	J
6	I
5	N
4	H
3	L
2	G
1	M

6. Study the following information carefully and answer the question given below—Eight people viz. G, H, I, J, K, L, M and N lives in a Building on different floors from top to bottom (such as ground floor numbered as 1 and top is numbered as 8) but not necessarily in the same order. There is a gap of three floors between J and L and both of them lives on odd number of floor. N lives just above H, who lives on even numbered floor. I lives on floor number 6. Only one person lives between L and M. J lives above I. Three persons live between K and H. Which of the following combination is false?

- (a) J-7 (b) L-3
 (c) G-2 (d) H-4
 (e) N-1

Correct Choice: (e)
 Solution:

FLOORS	PERSONS
8	K
7	J
6	I
5	N
4	H
3	L
2	G
1	M

7. In a row of children facing North, Rajan is twelfth from the right end and is fifth to the right of Satyarthi who is tenth from the left end. How many total number of children are there in the row?

- (a) 26 (b) 27
 (c) 28 (d) 29
 (e) None of these

Correct Choice: (a)
 Solution:

Satyarthi's position from left end = 10th
 Satyarthi's position from right end = 17th
 Total number of children in the row
 = 10 + 17 - 1 = 26

8. Raj leaves his home and goes straight 20 meters, then turns right and goes 10 meters. He turns left and goes 30 meters and finally turns right and starts walking. If he is now moving in the north direction, then in which direction did he start his walking?

- (a) East (b) West
 (c) North (d) South
 (e) None of these

Correct Choice: (b)
 Solution:

Raj started walking towards west.

9. In each of the questions given below, a group of digits/letter is given followed by four combinations of symbols numbered (a), (b), (c) and (d). You have to find out which of the four combinations correctly represents the group of digits/letters based on the symbol codes and the conditions given below. If none of the four combinations represents the group of digits correctly, give (e) 'None of these' as the answer

Digit	Z	L	F	1	I	5	7	A	E	B	2	X	6	W
Symbol	@	!	\$	^	μ	Δ	À	&	>	≠	<	®	£	∞

Condition for coding the group elements:

- (i) If the first letter is Vowel and the last digit is divisible by 2, then both are to be coded as +.
 (ii) If the first as well as the last digit is odd, then both are to be coded by the code of the first digit.
 (iii) If the first letter is consonant and the last digit is odd number, then the code of first and last elements are to be interchanged
 WX6ZF1

- (a) ^e\$@£∞ (b) ^®\$≠<
 (c) ^e£@£∞ (d) ≡e®><
 (e) None of these

Correct Choice: (c)
 Solution:

By using condition (iii) the code of WX6ZF1 will be ^e£@£∞

10. In each of the questions given below, a group of digits/letter is given followed by four combinations of symbols numbered (a), (b), (c) and (d). You have to find out which of the four combinations correctly represents the group of digits/letters based on the symbol codes and the conditions given below. If none of the four combinations represents the group of digits correctly, give (e) 'None of these' as the answer

Digit	Z	L	F	1	I	5	7	A	E	B	2	X	6	W
Symbol	@	!	\$	^	μ	Δ	À	&	>	≠	<	®	£	∞

Condition for coding the group elements:

- (i) If the first letter is Vowel and the last digit is divisible by 2, then both are to be coded as +.
 (ii) If the first as well as the last digit is odd, then both are to be coded by the code of the first digit.
 (iii) If the first letter is consonant and the last digit is odd number, then the code of first and last elements are to be interchanged
 FE1X6

- (a) ≡^®<£ (b) \$<^£®
 (c) \$>^μ£ (d) \$<^®£

(e) None of these

Correct Choice: (c)

Solution:

The code of FE1X16 will be \$^>^μ£.

11. In each of the questions given below, a group of digits/letter is given followed by four combinations of symbols numbered (a), (b), (c) and (d). You have to find out which of the four combinations correctly represents the group of digits/letters based on the symbol codes and the conditions given below. If none of the four combinations represents the group of digits correctly, give (e) ie 'None of these' as the answer

Digit	Z	L	F	1	I	5	7	A	E	B	2	X	6	W
Symbol	@	!	\$	^	μ	Δ	À	&	>	≠	<	®	£	∞

Condition for coding the group elements:

- (i) If the first letter is Vowel and the last digit is divisible by 2, then both are to be coded as +.
- (ii) If the first as well as the last digit is odd, then both are to be coded by the code of the first digit.
- (iii) If the first letter is consonant and the last digit is odd number, then the code of first and last elements are to be interchanged

- 5L2IA1
- (a) Δ!μ&Δ (b) Δ!&^μ
 (c) Δ!μ^& (d) μ&Δ!<
 (e) None of these

Correct Choice: (a)

Solution:

By using condition (ii) the code of 5L2IA1 will be Δ!<μ&Δ

12. In each of the questions given below, a group of digits/letter is given followed by four combinations of symbols numbered (a), (b), (c) and (d). You have to find out which of the four combinations correctly represents the group of digits/letters based on the symbol codes and the conditions given below. If none of the four combinations represents the group of digits correctly, give (e) ie 'None of these' as the answer

Digit	Z	L	F	1	I	5	7	A	E	B	2	X	6	W
Symbol	@	!	\$	^	μ	Δ	À	&	>	≠	<	®	£	∞

Condition for coding the group elements:

- (i) If the first letter is Vowel and the last digit is divisible by 2, then both are to be coded as +.
- (ii) If the first as well as the last digit is odd, then both are to be coded by the code of the first digit.
- (iii) If the first letter is consonant and the last digit is odd number, then the code of first and last elements are to be interchanged

- E2ZA6
- (a) &^F!@ (b) @<@&!
 (c) @&<@& (d) +<@&+
 (e) None of these

Correct Choice: (d)

Solution:

By using condition (i) the code of E2ZA6 will be +<@&+

13. In each of the questions given below, a group of digits/letter is given followed by four combinations of symbols numbered (a), (b), (c) and (d). You have to find out which of the four combinations correctly represents the group of digits/letters based on the symbol codes and the conditions given below. If none of the four combinations represents the group of digits correctly, give (e) ie 'None of these' as the answer

Digit	Z	L	F	1	I	5	7	A	E	B	2	X	6	W
Symbol	@	!	\$	^	μ	Δ	À	&	>	≠	<	®	£	∞

Condition for coding the group elements:

- (i) If the first letter is Vowel and the last digit is divisible by 2, then both are to be coded as +.
- (ii) If the first as well as the last digit is odd, then both are to be coded by the code of the first digit.
- (iii) If the first letter is consonant and the last digit is odd number, then the code of first and last elements are to be interchanged

- I2W2
- (a) @#^\$& (b) +@<^++
 (c) ^μ@# (d) @#>^
 (e) None of these

Correct Choice: (b)

Solution:

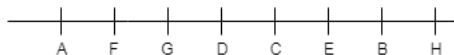
By using condition (i) the code of I2W2 will be +@<^++

14. Read the following information carefully and answer the questions given below. A, B, C, D, E, F, G and H are eight members standing in a row (not necessarily in the same order) facing north. C and B have as many members between them as G and C have between them. D, who is 4th from the extreme left end, is 2nd to the left of E. G is 3rd place away from one of the extreme end. Neither B nor C sits any extreme end. F sits immediate right of A. How many persons sit between G and B?

- (a) ONE (b) TWO
 (c) THREE (d) FOUR
 (e) None of these

Correct Choice: (c)

Solution:

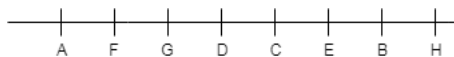


15. Read the following information carefully and answer the questions given below. A, B, C, D, E, F, G and H are eight members standing in a row (not necessarily in the same order) facing north. C and B have as many members between them as G and C have between them. D, who is 4th from the extreme left end, is 2nd to the left of E. G is 3rd place away from one of the extreme end. Neither B nor C sits any extreme end. F sits immediate right of A. Who among the following persons sits at extreme ends?

- (a) A, G (b) B, C
 (c) F, H (d) H, A
 (e) None of these

Correct Choice: (d)

Solution:



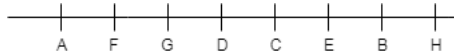
16. Read the following information carefully and answer the questions given below. A, B, C, D, E, F, G and H are eight members standing in a row (not necessarily in the same order) facing north. C and B have as many members between them as G and C have between them. D, who is 4th from the extreme left end, is 2nd to the left of E. G is 3rd place away from one of the extreme end. Neither B nor C sits any extreme end. F sits immediate right of A.

Who sits second to the right of E?

- (a) B
- (c) G
- (e) None of these

- (b) H
- (d) C

Correct Choice: (b)
Solution:

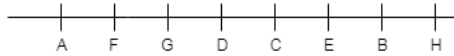


17. Read the following information carefully and answer the questions given below. A, B, C, D, E, F, G and H are eight members standing in a row (not necessarily in the same order) facing north. C and B have as many members between them as G and C have between them. D, who is 4th from the extreme left end, is 2nd to the left of E. G is 3rd place away from one of the extreme end. Neither B nor C sits any extreme end. F sits immediate right of A. Who sits third to the left of G?

- (a) A
- (c) F
- (e) B

- (b) None
- (d) E

Correct Choice: (b)
Solution:

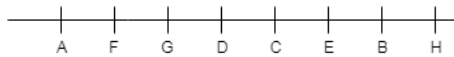


18. Read the following information carefully and answer the questions given below. A, B, C, D, E, F, G and H are eight members standing in a row (not necessarily in the same order) facing north. C and B have as many members between them as G and C have between them. D, who is 4th from the extreme left end, is 2nd to the left of E. G is 3rd place away from one of the extreme end. Neither B nor C sits any extreme end. F sits immediate right of A. Who sits immediate left of C?

- (a) A
- (c) C
- (e) None of these

- (b) H
- (d) D

Correct Choice: (d)
Solution:



19. Find the odd one out?

- (a) ACB
- (c) GIH
- (e) MNO

- (b) DFE
- (d) JLK

Correct Choice: (e)
Solution:

1	2	3	4	6	5	7	9	8	10	12	11	13	14	15
A	B	C	D	F	E	G	I	H	J	L	K	M	N	O

20. Study the following number sequence and answer the questions following it.

9 3 2 4 5 7 9 5 8 1 5 0 6 4 2 9 8 2 6 3 5 9 8 2 1 5 4 3 2 1.

How many odd numbers are there in the numeric series which are immediately preceded by a number, which is a whole square?

- (a) ONE
- (c) THREE
- (e) None of these

- (b) TWO
- (d) MORE THAN THREE

Correct Choice: (d)
Solution:

More than three

21. Study the following number sequence and answer the questions following it.

9 3 2 4 5 7 9 5 8 1 5 0 6 4 2 9 8 2 6 3 5 9 8 2 1 5 4 3 2 1.

If all the odd numbers are dropped from the series, which number will be eighth to the left of eleventh number from the left end?

- (a) 2
- (c) 6
- (e) None of these

- (b) 8
- (d) 4

Correct Choice: (b)
Solution:

8

22. Study the following number sequence and answer the questions following it.

9 3 2 4 5 7 9 5 8 1 5 0 6 4 2 9 8 2 6 3 5 9 8 2 1 5 4 3 2 1.

If 1 is subtracted from all odd numbers and 2 is subtracted from all even numbers in the given number series, then which number will be sixteenth from the right end?

- (a) 0
- (c) 2
- (e) 6

- (b) 3
- (d) 8

Correct Choice: (a)
Solution:

0

23. Study the following number sequence and answer the questions following it.

9 3 2 4 5 7 9 5 8 1 5 0 6 4 2 9 8 2 6 3 5 9 8 2 1 5 4 3 2 1.

If the position of the 1st and the 16th numbers, the 2nd and the 17th numbers, and so on up to the 15th and the 30th numbers, are interchanged, which number will be 7th to the right of 19th number from the right end?

- (a) 5

- (b) 9

(c) 8

(d) 4

(e) None of these

Correct Choice: (d)

Solution:

4

24. Study the following number sequence and answer the questions following it.

9 3 2 4 5 7 9 5 8 1 5 0 6 4 2 9 8 2 6 3 5 9 8 2 1 5 4 3 2 1.

How many total even numbers which is immediately preceded by a 'whole cube' or 'immediately preceded by a whole square' in the above sequence?

(a) FOUR

(b) FIVE

(c) THREE

(d) SIX

(e) None of these

Correct Choice: (b)

Solution:

FIVE

25. In each question below are given some statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows/follow from the given statements, disregarding commonly known facts.

Statements:

Some chocolate are chips.

Some chips are jelly.

All jelly are whoppers.

Conclusions:

I. Some jelly are chips.

II. All chocolate being whoppers is a possibility

(a) If only conclusion I follows.

(b) If only conclusion II follows.

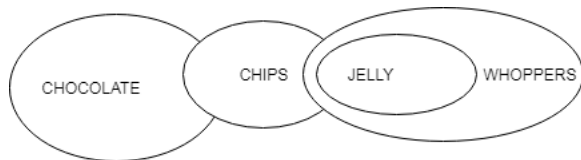
(c) If either conclusion I or II follows

(d) If either conclusion I Nor II follows

(e) If both conclusions I and II follow

Correct Choice: (d)

Solution:



26. How many pairs of letters are there in the word "WORSHIP" which have as many letters between them in the word as in alphabetical series?

(a) None

(b) One

(c) Two

(d) Three

(e) Four

Correct Choice: (d)

Solution:

Three- RS, HI, and PS

27. In each of the question, relationships between some elements are shown in the statements(s). These statements are followed by conclusions numbered I and II. Read the statements and give the answer.

Statements: $A < B > N = M, B \leq V, M > R$

Conclusions: I. $B > R$ II. $V > A$

(a) If only conclusion I follows.

(b) If only conclusion II follows.

(c) If either conclusion I or II follows.

(d) If neither conclusion I nor II follows.

(e) If both conclusions I and II follow.

Correct Choice: (e)

Solution:

I. $B > R$ (True) II. $V > A$ (True)

28. In each of the question, relationships between some elements are shown in the statements(s). These statements are followed by conclusions numbered I and II. Read the statements and give the answer.

Statements: $M < N < O > P, N < E$

Conclusions: I. $E < M$ II. $E > O$

(a) If only conclusion I follows.

(b) If only conclusion II follows.

(c) If either conclusion I or II follows.

(d) If neither conclusion I nor II follows.

(e) If both conclusions I and II follow.

Correct Choice: (d)

Solution:

I. $E < M$ (False) II. $E > O$ (False)

29. In each of the question, relationships between some elements are shown in the statements(s). These statements are followed by conclusions numbered I and II. Read the statements and give the answer.

Statements: $C \geq D < E = F \geq G, C < W$

Conclusions: I. $E = G$ II. $G < E$

(a) If only conclusion I follows.

(b) If only conclusion II follows.

(c) If either conclusion I or II follows.

(d) If neither conclusion I nor II follows.

(e) If both conclusions I and II follow.

Correct Choice: (c)

Solution:

I. $E = G$ (False) II. $G < E$ (False)

30. In each of the question, relationships between some elements are shown in the statements(s). These statements are followed by conclusions numbered I and II. Read the statements and give the answer.

Statements: $R < T < S < P > Q, R > X$

Conclusions: I. $S < Q$ II. $X < S$

(a) If only conclusion I follows.

(b) If only conclusion II follows.

(c) If either conclusion I or II follows.

(d) If neither conclusion I nor II follows.

(e) If both conclusions I and II follow.

Correct Choice: (b)

Solution:

I. $S < Q$ (False) II. $X < S$ (True)

31. In each question below are given two/three statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance with commonly known facts. Read all the conclu

1) if both conclusions I and II follow

2) if only conclusion II follows.

3) if neither conclusion I nor II follows.

4) if only conclusion I follows.

5) if either conclusion I or II follows.

Statements:

All shirts are skirts

No skirt is a top

All tops are kurtas.

Conclusions:

I. All shirts are kurtas

II. Some kurtas are skirts .

(a) 1

(b) 2

(c) 3

(d) 4

(e) 5

Correct Choice: (c)

Solution:

All shirts are skirts (A) + No skirt is top (E) = A + E = No shirt is a top (E) + All tops are kurtas (A) = E + A = O* = Some kurtas are not shirts. Hence conclusion I do not follow.

Again, No skirt is a top (E) + All tops are kurtas (A) = E + A = O = Some kurtas are not skirts (O). Hence conclusion II does not follow.

32. In each question below are given two/three statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance with commonly known facts. Read all the conclu

1) if both conclusions I and II follow

2) if only conclusion II follows.

3) if neither conclusion I nor II follows.

4) if only conclusion I follows.

5) if either conclusion I or II follows.

Statements:

Some Frooties are Maaza.

No Maaza is Slice.

All Slices are Fanta.

Conclusions:

I. Some Frooties are definitely not Slice.

II. Some Fanta are definitely not Maaza.

(a) 1

(b) 2

(c) 3

(d) 4

(e) 5

Correct Choice: (a)

Solution:

Some Frootis are Maaza (I) + No Maaza is Slice (E) = I + E = O = Some Frootis are not. Slice. Hence conclusion I follows.

Again, No Maaza is Slice (E) + All Slices are Fanta (A) = E + A = O* = Some Fanta are not Maaza. Hence conclusion II follows.

33. In each question below are given two/three statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance with commonly known facts. Read all the conclu

1) if both conclusions I and II follow

2) if only conclusion II follows.

3) if neither conclusion I nor II follows.

4) if only conclusion I follows.

5) if either conclusion I or II follows.

Statements:

All carbons are oxygen.

All nitrogen are not oxygen.

Some oxygen are sulphur.

Conclusions:

I. All nitrogen being sulphur is a possibility.

II. All nitrogen being sulphur is a possibility

(a) 1

(b) 2

(c) 3

(d) 4

(e) 5

Correct Choice: (d)

Solution:

All nitrogen are carbon (A) + All carbons are oxygen (A) = A + A = All nitrogen are oxygen (A) + Some oxygen are sulphur (I) = A + I = No conclusion. Thus, the possibility in I exists.

But conclusion II does not follow. Hence, only conclusion I follows.

34. In each question below are given two/three statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance with commonly known facts. Read all the conclu

- 1) if both conclusions I and II follow
- 2) if only conclusion II follows.
- 3) if neither conclusion I nor II follows.
- 4) if only conclusion I follows.
- 5) if either conclusion I or II follows.

Statements:

All Septembers are October.

No October is November.

No November is December.

Conclusions:

I. Some Septembers are not November.

II. No October is December.

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 5

Correct Choice: (d)

Solution:

All Septembers are October (A) + No October is November (E) = A + E = No September is November (E) ie Some Septembers are not November (O), Hence conclusion I follows.

Again, No October is November (E) + No November is December (E) = E + E = No conclusion. Hence conclusion II does not follow.

35. The following questions are based on the five words given below.

NOW, SAD, WAF, RAT, CAT

Note: The new words formed after performing the mentioned operations may not necessarily be a meaningful English word.

If the given words are arranged in the order as they appear in English dictionary from left to right, which of the following will be the fourth from the left end?

- (a) WAF
- (b) NOW
- (c) SAD
- (d) CAT
- (e) RAT

Correct Choice: (c)

Solution:

Given words: NOW SAD WAF RAT CAT

The new arrangement: CAT NOW RAT SAD WAF

Thus fourth from the left is SAD

36. The following questions are based on the five words given below.

NOW, SAD, WAF, RAT, CAT

Note: The new words formed after performing the mentioned operations may not necessarily be a meaningful English word.

How many letters are there in the English alphabetical series between the second letter of the word which is second from the right end and the third letter of the word which is second from the left end?

- (a) Two
- (b) Three
- (c) Four
- (d) Five
- (e) Other than those given in option.

Correct Choice: (a)

Solution:

Second word from the right end = RAT. So second letter = A

Second word from the left end = SAD. So third letter = D

Thus there are two letters B and C between A and D in the English alphabetical series.

37. The following questions are based on the five words given below.

NOW, SAD, WAF, RAT, CAT

Note: The new words formed after performing the mentioned operations may not necessarily be a meaningful English word.

If the third alphabet in each of the words is changed to the previous alphabet in the English alphabetical order, how many words thus formed will be without any vowels?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) More than Three

Correct Choice: (a)

Solution:

Given words: NOW SAD WAF RAT CAT

The new words become NOV SAC WAE RAS CAS

38. The following questions are based on the five words given below.

NOW, SAD, WAF, RAT, CAT

Note: The new words formed after performing the mentioned operations may not necessarily be a meaningful English word.

If the position of the first and the third alphabet of each of the words are interchanged, which of the following will form a meaningful word in the new arrangement?

- (a) NOW
- (b) SAD
- (c) RAT
- (d) WAF
- (e) Both A and C

Correct Choice: (e)

Solution:

New words become WON DAS FAW TAR TAC

WON and TAR are meaningful words.

39. The following questions are based on the five words given below.

NOW, SAD, WAF, RAT, CAT

Note: The new words formed after performing the mentioned operations may not necessarily be a meaningful English word.

If in each of the given words, each of the consonants is changed to its previous letter and each vowels is changed to its next letter in the English alphabetical series, then in how many words thus formed at least one vowel will appear?

- (a) None (b) One
 (c) Two (d) Three
 (e) More than three

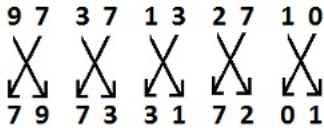
Correct Choice: (b)
 Solution:

New words become: MPX RBC VBE OBS BBS
 Hence there is only one word WAF

40. If in the number 9737132710, the positions of the first and the second digits are interchanged, similarly, the positions of the third and fourth digits are interchanged and so on till the positions of 9th and 10th digits are interchanged, then which digit will be 6th from the left end?

- (a) 7 (b) 1
 (c) 3 (d) 9
 (e) Other than those given as options

Correct Choice: (b)
 Solution:



41. Ravi sells an article at a gain of $12\frac{1}{2}\%$. If he had sold it at Rs. 22.50 more, he would have gained 25%. The cost price of the article is:

- (a) Rs. 162 (b) Rs. 140
 (c) Rs. 196 (d) Rs. 180
 (e) None of these

Correct Choice: (d)
 Solution:

$$12\frac{1}{2}\% = \text{Rs. } 22.50 \\ \Rightarrow \text{C.P.} = \text{Rs } 180$$

42. What should come in place of question mark (?) in following simplification problems?
 $50\% \text{ of } 250 + \sqrt{?} = 165$

- (a) 1700 (b) 1600
 (c) 1800 (d) 2000
 (e) None of these

Correct Choice: (b)
 Solution:

$$\frac{50}{100} \text{ of } 250 + \sqrt{?} = 165 \\ \Rightarrow 125 + \sqrt{?} = 165 \\ \Rightarrow \sqrt{?} = 40; ? = (40)^2 = 1600$$

43. What should come in place of question mark (?) in following simplification problems?
 $140\% \text{ of } 56 + 56\% \text{ of } 140 = ?$

- (a) 78.4 (b) 158.6
 (c) 156.8 (d) 87.4
 (e) None of these

Correct Choice: (c)
 Solution:

$$\frac{140}{100} \text{ of } 56 + \frac{56}{100} \text{ of } 140 \\ = 78.4 + 78.4 = 156.8$$

44. What should come in place of question mark (?) in following simplification problems?
 $1\frac{1}{4} + 1\frac{5}{9} \times 1\frac{5}{8} \div 6\frac{1}{2} = ?$

- (a) 17 (b) 27
 (c) 42 (d) 18
 (e) None of these

Correct Choice: (e)
 Solution:

$$? = 1\frac{1}{4} + 1\frac{5}{9} \times 1\frac{5}{8} \div 6\frac{1}{2} = \frac{5}{4} + \frac{14}{9} \times \frac{13}{8} \times \frac{2}{13} \\ = \frac{5}{4} + \frac{7}{18} \\ = \frac{45+14}{36} \\ = \frac{59}{36} \\ = 1\frac{23}{36}$$

45. What should come in place of question mark (?) in following simplification problems?
 $999.09 + 99.90 + 9.99 + 9 + 0.99 = ?$

(a) 1118.97

(c) 1218.97

(e) None of these

Correct Choice: (a)

Solution:

$$999.09 + 99.90 + 9.99 + 9 + 0.99 = 1118.97$$

(b) 1128.97

(d) 1139.97

46. What should come in place of question mark (?) in following simplification problems?
20% of [(220% of 40) - 10] % of 500 = ?

(a) 58

(c) 78

(e) None of these

Correct Choice: (c)

Solution:

$$\frac{20}{100} \times \left[\left(\frac{220}{100} \times 40 \right) - 10 \right] \% \text{ of } 500 = ?$$

$$\frac{1}{5} \times [88 - 10] \% \text{ of } 500 = ?$$

$$\frac{1}{5} \times \frac{78}{100} \times 500 = ?$$

$$? = 78$$

(b) 68

(d) 98

47. What should come in place of question mark (?) in following number series ?

5, 8, 12, 18, 27, ?

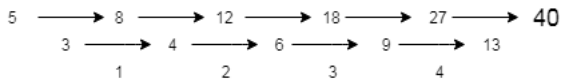
(a) 39

(c) 41

(e) 43

Correct Choice: (b)

Solution:



(b) 40

(d) 42

48. What should come in place of question mark (?) in following number series ?

2, 10, 30, 68, 130, ?

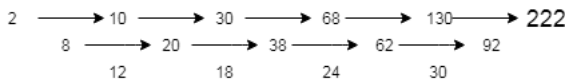
(a) 210

(c) 222

(e) 235

Correct Choice: (c)

Solution:



(b) 215

(d) 228

49. What should come in place of question mark (?) in following number series ?

142, 133, 115, 88, ?

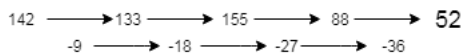
(a) 50

(c) 52

(e) 55

Correct Choice: (c)

Solution:



(b) 51

(d) 53

50. What should come in place of question mark (?) in following number series ?

3, 8, 18, 38, 78, ?

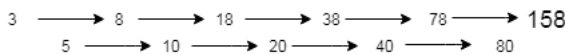
(a) 154

(c) 162

(e) 150

Correct Choice: (b)

Solution:



(b) 158

(d) 166

51. What should come in place of question mark (?) in following number series ?

6, 3, 3, 6, 24, ?

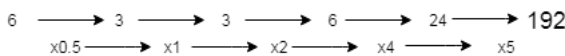
(a) 184

(c) 188

(e) 192

Correct Choice: (e)

Solution:



(b) 186

(d) 190

52. The retail price of a water geyser is Rs. 1265. If the manufacturer gains 10%, the wholesaler gains 15% and the retailer gains 25%, then what is the cost of the product?

- (a) 800 (b) 900
 (c) 700 (d) 600

(e) Other than those given as options.

Correct Choice: (a)
 Solution:

Answer -A
 Let the cost of production of an electric toaster be Rs x Given manufacturer gains 10%, wholesaler 15% and retailer 25% Hence 125% of 115% of 110% of x = 1265 $\frac{125}{100} \frac{115}{100} \frac{110}{100} \times x = 1265 \therefore x = 800$

53. A pipe can fill a cistern in 6 hours. Due to a leak in its bottom, it is filled in 7 hours. When the cistern is full, in how much time will it be emptied by the leak?

- (a) 42 hours (b) 40 hours
 (c) 43 hours (d) 45 hours

(e) Other than those given as options.

Correct Choice: (a)
 Solution:

Answer -A
 Pipe A fill cistern in 6 hours,
 Pipe B empty cistern ? hours,
 both pipe open then cistern filled in 7 hours,
 lcm of 6 and 7 is 42,
 one hr work of A is 7 and one hr work of B is 6 hrs, hence pipe B's one hr work =1,
 hence pipe B can empty cistern is 42/1=42 hours.

54. Rahul travels a certain distance at 3 km/h and reaches 15 min late. If he travels at 4 km/h, he reaches 15 min earlier. The distance he has to travel is

- (a) 7 km (b) 6 km
 (c) 10 km (d) 8 km

Correct Choice: (b)
 Solution:

Let the certain distance be d and time t.
 Now, by given condition, $\frac{d}{3} = (t + 15)min = \frac{(t+15)}{60}$ h

$20d = t + 15$ (i)
 $t = 20d - 15$ (i)

and $\frac{d}{4} = (t - 15)min$
 $= \frac{(t-15)}{60}$ h

$15d = t - 15$ (ii)
 $t = 15d + 15$ (ii)

From Eqs. (i) and (ii), we get
 $20d - 15 = 15d + 15$
 $5d = 30$
 $d = 6$ km.

55. In a 45 liter mixture, the ratio of milk to water is 3:2. How much water must be added to make the ratio 9:11?

- (a) 10 liters (b) 15 liters
 (c) 17 liters (d) 20 liters

(e) Other than those given as options

Correct Choice: (b)
 Solution:

Answer -B
 Initial Quantity :
 Milk-3
 Water-2
 After adding water:
 Milk-9
 Water-11
 now 5= 45
 $3= 27$ (quantity of milk)
 $2= 18$ (quantity of water)
 Again in the next ratio, 9=27
 $11= \frac{27}{9} \times 11$
 $=33$
 Required water to be added
 $=33 - 18$
 15 litres

56. A person can row with the stream at 8 km/h and against the stream at 6 km/h. The speed of the current is

- (a) 1 km/h (b) 2 km/h
 (c) 4 km/h (d) 5 km/h

(e) None of these

Correct Choice: (a)
 Solution:

Let the speed of the current be x km/h and speed of the person in still water be y km/h
 $\therefore y + x = 8$
 $y - x = 6$
 On solving equations, $y = 7$ and $x = 1$

57. A father's age is three times the sum of the ages of his two children, but 20 years hence his age will be equal to the sum of their ages. Then the father's age is :

- (a) 35 (b) 45
 (c) 30 (d) 25

(e) 36

Correct Choice: (c)

Solution:

Let sum of present age of two children = x years Father's present age = 3x Now, According to question $3x+20 = x+20+20$ x = 10 years so, Father's age = $10 \times 3 = 30$ years

58. A sum was put at simple interest at a certain rate for 3 years. Had it been put at 1% higher rate, it would have fetched Rs.5100 more. What is the sum?

- (a) 170000
- (b) 150000
- (c) 125000
- (d) 120000
- (e) Other than those given as options.

Correct Choice: (a)

Solution:

Answer -A
Simple interest for 1 yr = 51003 = Rs.1700

1% of sum 1700

Therefore, Sum = 1700×1001

= Rs.170000

59. From among 36 teachers in a school, one principal and one vice-principal are to be appointed. In how many ways can this be done?

- (a) 1260
- (b) 1250
- (c) 1240
- (d) 1800
- (e) Other than those given as options.

Correct Choice: (a)

Solution:

Answer -A
One principal can be appointed in 36 days One vice-principal appointed in remaining 35 ways ∴ Total no. of ways = $36 \times 35 = 1260$.

60. A card is drawn at random from a well-shuffled pack of 52 cards. What is the probability of getting a two of hearts or a two diamonds?

- (a) $3/26$
- (b) $2/17$
- (c) $1/26$
- (d) $4/13$
- (e) Other than those given as options

Correct Choice: (b)

Solution:

Answer -B

Required probability = $\frac{13C_2 + 13C_2}{54C_2}$

= $\frac{78+78}{1326}$

= $\frac{156}{1326}$

= $\frac{1326}{17}$

= $\frac{2}{17}$

61. A sum is invested for 3 years at compound interest at 5%, 10% and 20% respectively. In three years, if the sum amounts to Rs. 16,632, then find the sum.

- (a) Rs. 11000
- (b) Rs. 12000
- (c) Rs. 13000
- (d) Rs. 14000
- (e) other than those given as options

Correct Choice: (b)

Solution:

Answer -B

Let, P be the sum.

$$\therefore 16632 = P \left(1 + \frac{5}{100}\right) \left(1 + \frac{10}{100}\right) \left(1 + \frac{20}{100}\right)$$

$$\text{Or, } 16632 = P \times \frac{21}{20} \times \frac{11}{10} \times \frac{6}{5}$$

Or, P = Rs.12,000

62. **Directions :** Table shows the mobile phones sold on different days by different sellers. Read the table carefully and answer the questions.

Days→	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Mobiles Phones Sellers							
P	40	45	48	28	50	24	20
Q	90	92	27	12	16	98	26
R	80	36	30	13	28	62	47
S	60	46	12	64	52	34	76
T	48	18	58	69	70	10	15

Find the difference of mobile phones sold by P and R together on Monday to the mobile phones sold by S and T on Wednesday ?

- (a) 60
- (b) 50
- (c) 20
- (d) 80
- (e) other than those given as options

Correct Choice: (b)

Solution:

Answer -B

$$\text{Required difference} = (40 + 80) - (12 + 58) = 120 - 70 = 50$$

63. **Directions :** Table shows the mobile phones sold on different days by different sellers. Read the table carefully and answer the questions.

Days→ Mobiles Phones Sellers	Monday	Tuesday	Wednes day	Thursday	Friday	Saturday	Sunday
P	40	45	48	28	50	24	20
Q	90	92	27	12	16	98	26
R	80	36	30	13	28	62	47
S	60	46	12	64	52	34	76
T	48	18	58	69	70	10	15

Find the ratio of mobile phone sold by Q on Tuesday and Saturday together to the mobile phone sold by R on Thursday and Sunday together?

- (a) 7 : 19 (b) 19 : 5
(c) 19 : 6 (d) 2 : 5
(e) other than those given as options.

Correct Choice: (c)

Solution:

Answer -C

$$\text{Required ratio} = (90 + 27)/(13 + 47) = (117)/(60) = 19 : 6$$

64. **Directions :** Table shows the mobile phones sold on different days by different sellers. Read the table carefully and answer the questions.

Days→ Mobiles Phones Sellers	Monday	Tuesday	Wednes day	Thursday	Friday	Saturday	Sunday
P	40	45	48	28	50	24	20
Q	90	92	27	12	16	98	26
R	80	36	30	13	28	62	47
S	60	46	12	64	52	34	76
T	48	18	58	69	70	10	15

Mobile phones sold by P and S together on Wednesday is what percent of mobile phone sold by T on Sunday?

- (a) 400% (b) 200%
(c) 100% (d) 50%
(e) other than those given as options

Correct Choice: (a)

Solution:

answer -A

$$\text{Required percentage} = (48 + 12)/15 \times 100 = (60/15) \times 100 = 400\%$$

65. **Directions :** Table shows the mobile phones sold on different days by different sellers. Read the table carefully and answer the questions.

Days→ Mobiles Phones Sellers	Monday	Tuesday	Wednes day	Thursday	Friday	Saturday	Sunday
P	40	45	48	28	50	24	20
Q	90	92	27	12	16	98	26
R	80	36	30	13	28	62	47
S	60	46	12	64	52	34	76
T	48	18	58	69	70	10	15

What is the average of mobile phone sold by Q on Wednesday, T on Sunday and S on Monday?

- (a) 24 (b) 36
(c) 30 (d) 28
(e) other than those given as options

Correct Choice: (e)

Solution:

Answer -E

$$\text{Average} = (27 + 15 + 60) / 3 = 102 / 3 = 34.$$

66. Directions: What should come in place of question mark (?) in the following questions?

$$45\% \text{ of } 600 + ?\% \text{ of } 480 = 390$$

- (a) 120 (b) 25
(c) 30 (d) 40
(e) Other than those given as option.

Correct Choice: (b)

Solution:

$$\frac{45 \times 600}{100} + \frac{?}{100} \times 480 = 390$$

$$? = \frac{(390 - 270) \times 100}{480} = \frac{120 \times 100}{480} = 25$$

67. Directions: What should come in place of question mark (?) in the following questions?

$$65\% \text{ of } 240 + ?\% \text{ of } 150 = 210$$

- (a) 45 (b) 46
(c) 32 (d) 36
(e) Other than those given as option

Correct Choice: (d)

Solution:

$$\frac{65 \times 240}{100} + \frac{? \times 150}{100} = 210$$

$$156 + ? \times \frac{3}{2} = 210 \Rightarrow 210 - 156 = 54$$

$$\text{ie } ? = \frac{54 \times 2}{3} = 36$$

68. Directions: Table shows the mobile phones sold on different days by different sellers. Read the table carefully and answer the questions.

Days → Mobiles Phones Sellers	Monday	Tuesday	Wednes day	Thursday	Friday	Saturday	Sunday
P	40	45	48	28	50	24	20
Q	90	92	27	12	16	98	26
R	80	36	30	13	28	62	47
S	60	46	12	64	52	34	76
T	48	18	58	69	70	10	15

The mobiles sold by P on Thursday are of two types i.e. Windows phone and Android phone in ratio 3 : 4. Find the number of Windows phones sold by P on Thursday?

- (a) 14 (b) 24
(c) 16 (d) 12
(e) other than those given as options

Correct Choice: (d)

Solution:

Answer -D

$$\text{Windows phones sold by P on Thursday} = (3/7) \times 28 = 12$$

69. What should come in place of question mark (?) in the following questions?

$$555.55 + 55.55 + 15 + 0.55 + 0.05 = ?$$

- (a) 626.50 (b) 626.70
(c) 625.50 (d) 626.70
(e) None of these

Correct Choice: (d)

Solution:

$$555.55 + 55.55 + 15 + 0.55 + 0.05 = ?$$

$$? = 626.70$$

70. What should come at the place of question mark (?) in the following question?

$$1425 + 8560 + 1680 + 200 = ?$$

- (a) 58.325 (b) 9973.4
(c) 56.425 (d) 9939.4
(e) 9993.4

Correct Choice: (e)

Solution:

$$1425 + 8560 + 1680 + 200 = ?$$

$$? = 1425 + 8560 + \frac{1680}{200}$$

$$? = 9985 + 8.4 = 9993.4$$

71. The sides of a triangle are in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$. If the perimeter of the triangle is 52 cm, the length of the smallest side is

- (a) 14 (b) 10

(c) 6

Correct Choice: (d)
Solution:

Ratio of triangle = $\frac{1}{2} : \frac{1}{3} : \frac{1}{4} = 6 : 4 : 3$
Now, $6x + 4x + 3x = 52$ cm.
 $13x = 52$ cm
 $x = 4$ cm
Length of smallest side = $3x = 3 \times 4 = 12$ cm

(d) 12

72. If A's salary is 25% more than B's then how much percent is B's salary less than A's?

(a) 20%

(c) 25%

Correct Choice: (a)
Solution:

A's salary more than B's salary by 25% = $\frac{1}{4}$ B's salary is less than A's salary by $\frac{1}{4} \div \frac{5}{4} = \frac{1}{5} = 20\%$

(b) 30%

(d) None of these

73. Directions: What should come in place of question mark (?) in the following questions?

$$4\frac{2}{3} + 7\frac{1}{6} - 5\frac{2}{9} = ?$$

(a) $6\frac{2}{3}$

(c) $6\frac{11}{18}$

(e) Other than those given in options

Correct Choice: (c)
Solution:

$$? = 4\frac{2}{3} + 7\frac{1}{6} - 5\frac{2}{9} = (4 + 7 - 5) + (\frac{2}{3} + \frac{1}{6} - \frac{2}{9}) = 6\frac{11}{18}$$

(b) $6\frac{2}{9}$

(d) $6\frac{7}{18}$

74. Directions: What should come in place of question mark (?) in the following questions?

$$\frac{2}{3} \text{ of } 1\frac{2}{5} \text{ of } 75\% \text{ of } 540 = ?$$

(a) 378

(c) 756

(e) Other than those given as options

Correct Choice: (a)
Solution:

$$? = \frac{2}{3} \text{ of } 1\frac{2}{5} \text{ of } 75\% \text{ of } 540 = \frac{2}{3} \times \frac{7}{5} \times \frac{3}{4} \times 540 = 7 \times 54 = 378$$

(b) 252

(d) 332

75. Directions: What should come in place of question mark (?) in the following questions?

$$25.6\% \text{ of } 250 + \sqrt{?} = 119$$

(a) 4225

(c) 2025

(e) Other than those given as option

Correct Choice: (b)
Solution:

$$\begin{aligned} \sqrt{?} &= 119 - \frac{25.6 \times 250}{100} \\ &= 119 - 25.6 \text{ times } \frac{5}{2} = 119 - 12.8 \times 5 \\ &= 119 - 64 = 55 \\ \text{ie?} &= 55 \times 55 = 3025 \end{aligned}$$

(b) 3025

(d) 5625

76. Directions: What should come in place of question mark (?) in the following questions?

$$4\frac{5}{6} - 5\frac{5}{9} = ? - 2\frac{1}{3} + \frac{1}{18}$$

(a) $\frac{3}{4}$

(c) $\frac{17}{9}$

(e) Other than those given as options

Correct Choice: (e)
Solution:

$$\begin{aligned} (4 - 5 + 2 - 1) + (\frac{5}{6} - \frac{5}{9} + \frac{1}{3} - \frac{1}{18}) \\ \text{ie} (\frac{15 - 10 + 6 - 1}{18}) = \frac{10}{18} = \frac{5}{9} \end{aligned}$$

(b) $\frac{21}{18}$

(d) $1\frac{11}{18}$

77. Directions: What should come in place of question mark (?) in the following questions?

$$[30\% \text{ of } (80\% \text{ of } 850) \div 34] = ?$$

(a) 5

(c) 6

(e) 9

Correct Choice: (c)
Solution:

$$\begin{aligned} \frac{3}{10} \times (\frac{4}{5} \times 850) \div 34 \\ = \frac{3}{10} \times (4 \times 170) \div 34 \\ = \frac{3}{10} \times 20 = 6 \end{aligned}$$

(b) 4

(d) 8

78. A certain job was assigned to a group of men to do in 20 days. But 12 men did not turn up for the job and the remaining men did the job in 32 days. The original number of men in the group was ?

(a) 32

(b) 36

(c) 42

(d) 40

(e) None of these

Correct Choice: (a)

Solution:

$$m_1 d_1 = m_2 d_2$$

$$m_1 \times 20 = (m_1 - 12) \times 32$$

$$m_1 = 32$$

79. A vessel contains liquids A and B in ratio 5:3. If 16 litres of the mixture are removed and the same quantity of liquid B is added, the ratio becomes 3:5 what quantity does the vessel hold?

(a) 20 litres

(b) 30 litres

(c) 40 Litres

(d) 50 litres

Correct Choice: (c)

Solution:

Suppose vessel contains $5x$ litres and $3x$ litres of liquid A and B respectively.

The removed quantity contains $\frac{16}{5+3} \times 5 = 10$ litres of A and $16-10=6$ litres of B.

$$\text{Now, } (5x - 10) : (3x - 6 + 16) = 3 : 5$$

$$\frac{5x-10}{3x+10} = \frac{3}{5}$$

$$\implies 25x - 50 = 9x + 30$$

$$16x = 80$$

$$x = 5$$

\therefore The vessel contains $8x = 8 \times 5 = 40$ litres

80. Directions: What should come in place of question mark (?) in the following questions?

$$? \% \text{ of } 800 = 293 - 22 \% \text{ of } 750$$

(a) 14

(b) 16

(c) 18

(d) 12

(e) 20

Correct Choice: (b)

Solution:

$$? \times 8 = 293 - 22 \times 7.50 = 293 - 165$$

$$? \times 8 = 128$$

$$\text{ie } ? = \frac{128}{8} = 16$$