

1. Study the following information carefully and answer the questions given below.

Give answer-

Statements: $H = W \leq R > F$

Conclusions: I. $R = H$

II. $R > H$

(a) If only conclusion I is true

(c) If either conclusion I or conclusion II is true

(e) If both conclusions I and II are true

Correct Choice: (c)

Solution:

Statement: $R \geq W = H$ (False).

Conclusion: $R \geq W = H$ (False)

(b) If only conclusion II is true

(d) If neither conclusion I nor conclusion II is true

2. Study the following information carefully and answer the questions given below.

Give answer-

Statements: $M < T > K = D$

Conclusions I. $D < T$

II. $K > M$

(a) If only conclusion I is true

(c) If either conclusion I or conclusion II is true

(e) If both conclusions I and II are true

Correct Choice: (a)

Solution:

I. $D = K < T$ (True)

II. $K < T > M$ (False)

(b) If only conclusion II is true

(d) If either conclusion I nor conclusion II is true

3. Study the following information carefully and answer the questions given below. Give answer-

Statements: $R \leq N \geq F >$

Conclusions: I. $F = R$ II. $B < N$

(a) If only conclusion I is true

(c) If either conclusion I or conclusion II is true

(e) If both conclusions I and II are true

Correct Choice: (b)

Solution:

I. $F \leq N \geq R$ (False) II. $B < F \leq N$ (True)

(b) If only conclusion II is true

(d) If either conclusion I nor conclusion II is true

4. Study the following information carefully and answer the questions given below.

Give answer

Statements: $H > W < M \geq K$

Conclusions I. $K < W$

II. $H > M$

(a) If only conclusion I is true

(c) If either conclusion I or conclusion II is true

(e) If both conclusions I and II are true

Correct Choice: (d)

Solution:

I. $K \leq M > W$ (False)

II. $H > Q < M$ (False)

(b) If only conclusion II is true

(d) If either conclusion I nor conclusion II is true

5. Study the following information carefully and answer the questions given below. Give answer-

Statements: $R \geq T = M > D$

Conclusions: I. $D < T$

II. $R \geq M$

(a) If only conclusion I is true

(c) If either conclusion I or conclusion II is true

(b) If only conclusion II is true

(d) If either conclusion I or conclusion II is true

(e) If both conclusions I and II are true

Correct Choice: (e)

Solution:

I. $D < M = T$ (True)

II. $R \geq T = M$ (True)

6. In each of the following below is given a group of letters followed by four combinations of digits/symbols. You have to find out which of the combinations correctly represents the group of letters based on the following coding system and mark the number of that combination as the answer. If none of the four combinations correctly represents the group of letters, mark (e), i.e. 'None of these', as the answer .

Letter	T	G	E	L	P	I	C	B	R	A	Q	M	U	H	J
Digit/Symbol	©	#	%	9	7	3	*	\$	1	8	2	6	4	@	5

Conditions:

(i) If both the first and the last letter of the group are vowels, their codes are to be interchanged.

(ii) If the first letter is a consonant and the last letter is a vowel, both are to be coded as the code for the consonant.

ERHBMT

(a) %1@\$6

(b) %1\$@6

(c) ©1\$@6

(d) @%1\$6

(e) None of these

Correct Choice: (a)

Solution:

%1@\$6

7. In each of the following below is given a group of letters followed by four combinations of digits/symbols. You have to find out which of the combinations correctly represents the group of letters based on the following coding system and mark the number of that combination as the answer. If none of the four combinations correctly represents the group of letters, mark (e), i.e. 'None of these', as the answer .

Letter	T	G	E	L	P	I	C	B	R	A	Q	M	U	H	J
Digit/Symbol	©	#	%	9	7	3	*	\$	1	8	2	6	4	@	5

Conditions:

(i) If both the first and the last letter of the group are vowels, their codes are to be interchanged.

(ii) If the first letter is a consonant and the last letter is a vowel, both are to be coded as the code for the consonant.

PQGALE

(a) 72#89%

(b) 72#897

(c) 72%#97

(d) 27#892

(e) None of these

Correct Choice: (b)

Solution:

72#897

8. In each of the following below is given a group of letters followed by four combinations of digits/symbols. You have to find out which of the combinations correctly represents the group of letters based on the following coding system and mark the number of that combination as the answer. If none of the four combinations correctly represents the group of letters, mark (e), i.e. 'None of these', as the answer .

Letter	T	G	E	L	P	I	C	B	R	A	Q	M	U	H	J
Digit/Symbol	©	#	%	9	7	3	*	\$	1	8	2	6	4	@	5

Conditions:

(i) If both the first and the last letter of the group are vowels, their codes are to be interchanged.

(ii) If the first letter is a consonant and the last letter is a vowel, both are to be coded as the code for the consonant.

EMTAHA

(a) 8©68@8

(b) 36©#83

(c) 86©8@3

(d) 86©8@%

(e) None of these

Correct Choice: (d)

Solution:

86@8@%

9. In each of the following below is given a group of letters followed by four combinations of digits/symbols. You have to find out which of the combinations correctly represents the group of letters based on the following coding system and mark the number of that combination as the answer. If none of the four combinations correctly represents the group of letters, mark (e), i.e. 'None of these', as the answer .

Letter	T	G	E	L	P	I	C	B	R	A	Q	M	U	H	J
Digit/Symbol	©	#	%	9	7	3	★	\$	1	8	2	6	4	@	5

Conditions:

- (i) If both the first and the last letter of the group are vowels, their codes are to be interchanged.
(ii) If the first letter is a consonant and the last letter is a vowel, both are to be coded as the code for the consonant.

BQRLHA

(a) 8219@\$ (b) \$219@8 (c) \$219@\$ (d) 82198@ (e) None of these

(b) \$219@8

(c) \$219@\$

(d) 82198@

(e) None of these

Correct Choice: (c)

Solution:

\$219@\$

10. In each of the following below is given a group of letters followed by four combinations of digits/symbols. You have to find out which of the combinations correctly represents the group of letters based on the following coding system and mark the number of that combination as the answer. If none of the four combinations correctly represents the group of letters, mark (e), i.e. 'None of these', as the answer .

Letter	T	G	E	L	P	I	C	B	R	A	Q	M	U	H	J
Digit/Symbol	©	#	%	9	7	3	★	\$	1	8	2	6	4	@	5

Conditions:

- (i) If both the first and the last letter of the group are vowels, their codes are to be interchanged.
(ii) If the first letter is a consonant and the last letter is a vowel, both are to be coded as the code for the consonant.

RGMALB

(a) 1#6891

(b) \$#6891

(c) 16#89\$

(d) \$#689\$

(e) None of these

Correct Choice: (e)

Solution:

1#689\$

11. In each question below are two/three statements followed by two conclusions I and II. You have to take the two/three given statements to be true even if they seem to be at given conclusions logically follows from the given statements disregarding commonly known facts

Statements:

No tea is coffee.

No sweet is tea.

Conclusions:

I. No coffee is sweet.

II. All sweets are coffee.

(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:



12. In each question below are two/three statements followed by two conclusions I and II. You have to take the two/three given statements to be true even if they seem to be at given conclusions logically follows from the given statements disregarding commonly known facts

Statements: All medals are awards

All rewards are medals

Conclusions:

I. All rewards are awards.

II. All awards are medals.

(a) If only Conclusion I follows

(b) If only Conclusion II follows

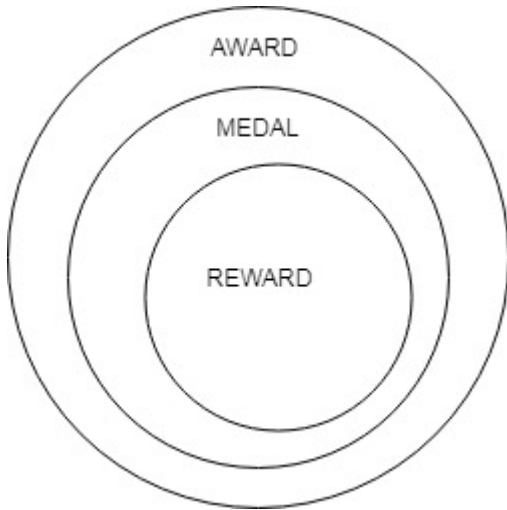
(c) If either Conclusion I or II follows

(d) If either Conclusion I nor II follows

(e) If both Conclusions I and II follow

Correct Choice: (c)

Solution:



13. In each question below are two/three statements followed by two conclusions I and II. You have to take the two/three given statements to be true even if they seem to be at given conclusions logically follows from the given statements disregarding commonly known facts

Statements:

Some leaves are plants.

All bushes are plants.

Conclusions:

I. At least some leaves are bushes.

II. Some leaves are definitely not bushes

(a) If only Conclusion I follows

(b) If only Conclusion II follows

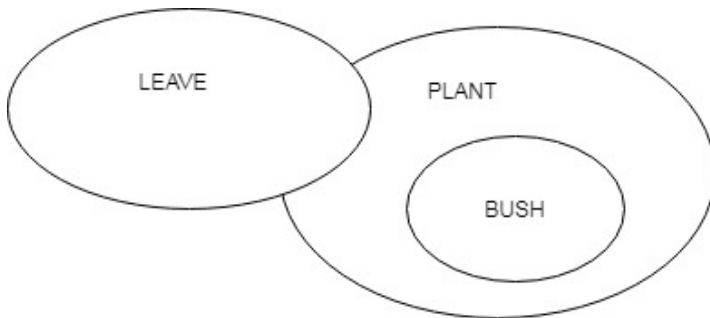
(c) If either Conclusion I or II follows

(d) If either Conclusion I nor II follows

(e) If neither Conclusion I nor II follows

Correct Choice: (c)

Solution:



14. In each question below are two/three statements followed by two conclusions I and II. You have to take the two/three given statements to be true even if they seem to be at given conclusions logically follows from the given statements disregarding commonly known facts

Statements:

All bottles are mugs.

No cup is a mug.

Conclusions:

I. No bottle is a cup.

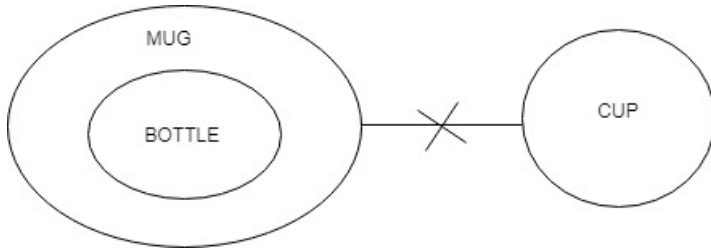
II. At least some mugs are bottles.

- (a) If only Conclusion I follows
- (c) If either Conclusion I or II follows
- (e) If neither Conclusion I nor II follows

- (b) If only Conclusion II follows
- (d) If either Conclusion I nor II follows

Correct Choice: (e)

Solution:



15. In each question below are two/three statements followed by two conclusions I and II. You have to take the two/three given statements to be true even if they seem to be at given conclusions logically follows from the given statements disregarding commonly known facts.

Statements:

- All windows are doors.
- All entrances are windows.
- No gate is a door.

Conclusions:

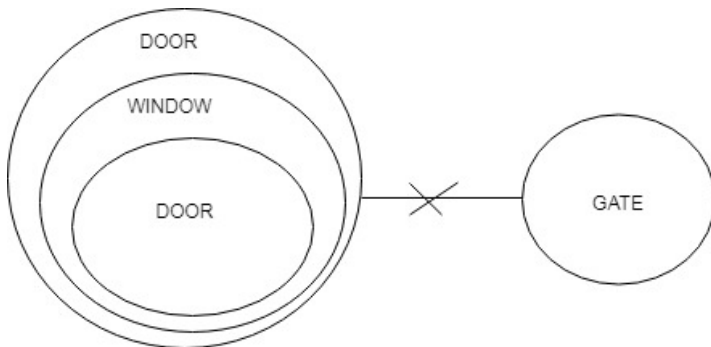
- I. At least some windows are gates
- II. No gate is an entrance

- (a) If only Conclusion I follows
- (c) If either Conclusion I or II follows
- (e) If neither Conclusion I nor II follows

- (b) If only Conclusion II follows
- (d) If either Conclusion I nor II follows

Correct Choice: (b)

Solution:

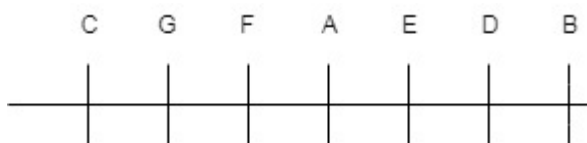


16. Study the following information carefully and answer the questions given below: A, B, C, D, E, F and G are sitting in a straight line facing north, but not necessarily in the same order. There is only one person between F and C. E sits between A and D. There are only two persons between E and G. F sits on the immediate left of A, who sits in the middle of the row. How many persons are there between E and F?

- (a) One
- (c) Three
- (e) None of these
- (b) Two
- (d) Can't be determined

Correct Choice: (a)

Solution:



17. Study the following information carefully and answer the questions given below: A, B, C, D, E, F and G are sitting in a straight line facing north, but not necessarily in the same order. There is only one person between F and C. E sits between A and D. There are only two persons between E and G. F sits on the immediate left of A, who sits in the middle of the row. Who among the following sit at the extreme ends of the row?

- (a) D, F
- (b) G, C

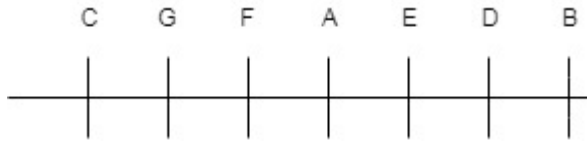
(c) B,C

(d) Can't be determined

(e) None of these

Correct Choice: (c)

Solution:



18. Study the following information carefully and answer the questions given below: A, B, C, D, E, F and G are sitting in a straight line facing north, but not necessarily in the same order. There is only one person between F and C. E sits between A and D. There are only two persons between E and G. F sits on the immediate left of A, who sits in the middle of the row. Who among the following sits on the immediate right of D ?

(a) G

(b) E

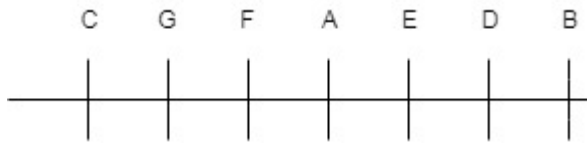
(c) F

(d) B

(e) None of these

Correct Choice: (a)

Solution:



19. Study the following information carefully and answer the questions given below: A, B, C, D, E, F and G are sitting in a straight line facing north, but not necessarily in the same order. There is only one person between F and C. E sits between A and D. There are only two persons between E and G. F sits on the immediate left of A, who sits in the middle of the row. Who among the following sits third to the right of A?

(a) C

(b) G

(c) B

(d) E

(e) NONE OF THESE

Correct Choice: (c)

Solution:



20. Study the following information carefully and answer the questions given below: A, B, C, D, E, F and G are sitting in a straight line facing north, but not necessarily in the same order. There is only one person between F and C. E sits between A and D. There are only two persons between E and G. F sits on the immediate left of A, who sits in the middle of the row. Which of the following statements is true with regard to B?

(a) B is second to the right of A.

(b) B is fourth to the left of G

(c) B sits at the extreme right end of the row.

(d) B sits at the extreme left end of the row.

(e) None of these

Correct Choice: (c)

Solution:



21. The positions of how many digits in the number 59164823 will remain unchanged after the digits are rearranged in descending order within the number?

(a) None

(b) One

(c) Two

(d) Three

(e) More than three

Correct Choice: (c)

Solution:

5	9	1	6	4	8	2	3
9	8	6	5	4	3	2	1

22. What should come next in the following letter series based on English alphabet?

CEA IKG OQM ?

(a) STW

(b) WUS

(c) SWU

(d) UWS

(e) NONE OF THESE

Correct Choice: (d)

Solution:

UWS

23. In a row of 40 children facing North, E is eighth to the right of V. If V is 18th from the right end of the row, how far is E from the left end of the row?

(a) 32nd

(b) 10th

(c) 31st

(d) 29th

(e) None of these

Correct Choice: (c)

Solution:

V is 18th from the left and E is 8th to the right of V so E is $30+1=31$ st from the left.

24. Following questions are based on the five three digit numbers given below

853 581 747 474 398

If all the digits in each of the numbers are arranged in descending order within the number, which of the following will form the lowest in the new arrangement of numbers?

(a) 853

(b) 581

(c) 747

(d) 474

(e) 398

Correct Choice: (d)

Solution:

474

25. Following questions are based on the five three digit numbers given below

853 581 747 474 398

If all the numbers are arranged in ascending order from left to right, which of the following will be the sum of all the three digits of the number which is exactly in the middle of the new arrangement?

(a) 17

(b) 15

(c) 13

(d) 14

(e) 19

Correct Choice: (d)

Solution:

$(5+8+1) = 14$

26. Following questions are based on the five three digit numbers given below

853 581 747 474 398

What will be the resultant of third digit of the lowest number is multiplied with the second digit of the highest number?

(a) 27

(b) 40

(c) 2

(d) 45

(e) 19

Correct Choice: (b)

Solution:

$$8 \times 5 = 40$$

27. Following questions are based on the five three digit numbers given below

853 581 747 474 398

If the positions of the second and the third digits of each of the numbers are interchanged, how many even numbers will be formed?

(a) None

(b) One

(c) Two

(d) Three

(e) Four

Correct Choice: (c)

Solution:

Two

28. Following questions are based on the five three digit numbers given below

853 581 747 474 398

If one is added to the first digit of each of the numbers, how many numbers thus formed will be divisible by three?

(a) None

(b) One

(c) Two

(d) Three

(e) Four

Correct Choice: (c)

Solution:

Two

29. In a certain code language JANUARY is written as ZSBTOBK. How is OCTOBER written in that code language?

(a) SFCPU DP

(b) SFCNU DP

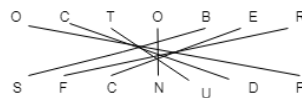
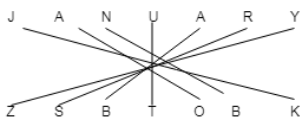
(c) SCFNDUP

(d) FSCNU DP

(e) None of these

Correct Choice: (b)

Solution:



30. Study the following information carefully to answer the given questions: B is sister of A. A is father of G. H is the only son of F. F is only son-in-law of A. G is the mother of H.

If C is the husband of B, then how is A related to C?

(a) Father

(b) Brother-in-law

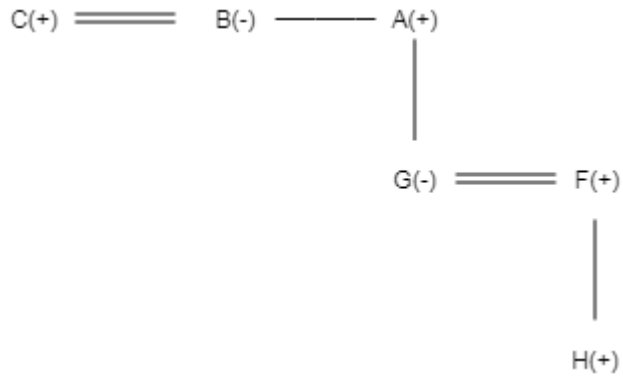
(c) Mother

(d) Brother

(e) None of these

Correct Choice: (b)

Solution:

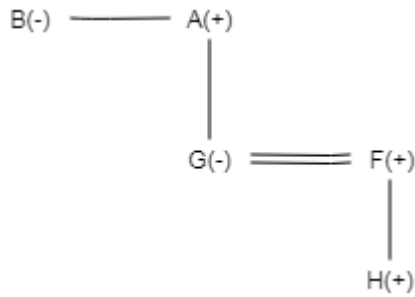


31. Study the following information carefully to answer the given questions: B is sister of A. A is father of G. H is the only son of F. F is only son-in-law of A. G is the mother of H. How is G related to B?

- (a) Brother
- (b) Niece
- (c) Sister
- (d) Nephew
- (e) None of these

Correct Choice: (b)

Solution:

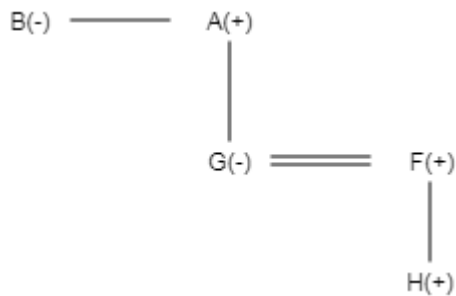


32. Study the following information carefully to answer the given questions: B is sister of A. A is father of G. H is the only son of F. F is only son-in-law of A. G is the mother of H. How is A related to H?

- (a) Uncle
- (b) Father
- (c) Paternal grandfather
- (d) Maternal grandfather
- (e) None of these

Correct Choice: (d)

Solution:



33. What will come in place of question mark (?) in the following questions?
12, 13, 17, 26, 42, ?

- (a) 67
- (b) 58
- (c) 59
- (d) 75
- (e) None of these

Correct Choice: (a)

Solution:

The pattern is $+1^2, +2^2, +3^2, \dots, 42 + 25 = 67$

34. What will come in place of question mark (?) in the following questions?
1, 2, 8, 48, 384 ?

- (a) 3440 (b) 3840
(c) 3820 (d) 3550
(e) None of these

Correct Choice: (b)

Solution:

The pattern is $\times 2, \times 4, \times 6, \times 8, \dots, 384 \times 10 = 3840$

35. What will come in place of question mark (?) in the following questions?
157, 150, 136, 115, 87, ?

- (a) 50 (b) 51
(c) 52 (d) 54
(e) None of these

Correct Choice: (c)

Solution:

The pattern is $-7, -14, -21, -28, \dots, 87 - 35 = 52$

36. What will come in place of question mark (?) in the following questions?
41472, 5184, 576, 72, 8, ?

- (a) 0 (b) 9
(c) 1 (d) 8
(e) None of these

Correct Choice: (c)

Solution:

$$41472 \div 8 = 5184$$

$$5184 \div 9 = 576$$

$$576 \div 8 = 72$$

$$72 \div 9 = 8$$

$$8 \div 8 = 1$$

37. What will come in place of question mark (?) in the following questions?
8, 4, 4, 6, 12, ?

- (a) 30 (b) 34
(c) 38 (d) 42
(e) None of these

Correct Choice: (a)

Solution:

The pattern is $\times 0.5, \times 1, \times 1.5, \times 2, \dots, 12 \times 2.5 = 30$

38. What will come in place of question mark (?) in the following questions?

$$\frac{3}{9} \times 2286 + \frac{2}{11} \times 1397 = ?$$

- (a) 916 (b) 1016
(c) 1216 (d) 1026
(e) 1256

Correct Choice: (b)

Solution:

$$762 + 254 = 1016$$

39. What will come in place of question mark (?) in the following questions?
 $7802 + 132 - 8963 + 1326 = ? \times 33$

- (a) 6 (b) 12
(c) 21 (d) 9
(e) 14

Correct Choice: (d)

Solution:

$$9260 - 8963 = ? \times 33$$

$$? = \frac{297}{33}$$
$$= 9$$

40. What will come in place of question mark (?) in the following questions?
 $21.9\% \text{ of } 650 = ? + 23.12$

- (a) 121.23 (b) 109.23
(c) 119.32 (d) 129.23
(e) 119.23

Correct Choice: (e)

Solution:

$$142.35 = ? + 23.12$$

$$? = 119.23$$

41. What will come in place of question mark (?) in the following questions?
 $6666 \div 66 \div 0.25 = ?$

- (a) 101 (b) 404
(c) 304 (d) 40.4
(e) None of these

Correct Choice: (b)

Solution:

$$6666 \times \frac{1}{66} \times \frac{1}{0.25} = ?$$
$$? = 404$$

42. What will come in place of question mark (?) in the following questions?
 $\sqrt{?} + 18 = \sqrt{2704}$

- (a) 1256 (b) 1156
(c) 1296 (d) 1024
(e) 1466

Correct Choice: (b)

Solution:

$$\sqrt{?} = 52 - 18$$

$$? = 1156$$

43. What will come in place of question mark (?) in the following questions?

$$2\frac{1}{7} + 4\frac{3}{5} - 3\frac{1}{7} + 5\frac{1}{10} = ?$$

- (a) $9\frac{7}{10}$ (b) $7\frac{7}{10}$
(c) $8\frac{7}{10}$ (d) $8\frac{4}{70}$
(e) None of these

Correct Choice: (a)

Solution:

$$\begin{aligned} & (2 + 4 + 5 - 3) + \left(\frac{1}{7} + \frac{3}{5} + \frac{1}{10} - \frac{1}{7}\right) \\ &= 8 + \frac{10+42+7-10}{70} \\ &= 8 + \frac{49}{70} \\ &= 8\frac{49}{70} \\ &= 8\frac{7}{10} \end{aligned}$$

44. What will come in place of question mark (?) in the following questions?
 $164 \times 43 - 6070 = ?$

- (a) 682 (b) 792
(c) 882 (d) 1082
(e) 982

Correct Choice: (e)

Solution:

$$\begin{aligned} 7052 - 6070 &= ? \\ ? &= 982 \end{aligned}$$

45. What will come in place of question mark (?) in the following questions?
 $14.5\% \text{ of } 740 - ? \% \text{ of } 320 = 87.3$

- (a) 6.75 (b) 6.25
(c) 12.5 (d) 14.75
(e) 8.25

Correct Choice: (b)

Solution:

$$\begin{aligned} 107.3 - 87.3 &= \frac{?}{100} \times 320 \\ ? &= \frac{20 \times 100}{320} \\ &= 6.25 \end{aligned}$$

46. What will come in place of question mark (?) in the following questions?
 $(27)^3 \times 3^4 \div (81)^2 = 3^?$

- (a) 2 (b) 5
(c) 4 (d) 3
(e) None of these

Correct Choice: (b)

Solution:

$$\begin{aligned} & \frac{(3^3)^2 \times 3^4}{(3^4)^2} \\ &= 3^? \\ ? &= 9 + 4 - 8 \\ &= 5 \end{aligned}$$

47. What will come in place of question mark (?) in the following questions?
 $37 \text{ of } 329 + 411 \text{ of } 2530 = \sqrt{?} + 894$

- (a) 28899 (b) 27789
(c) 29899 (d) 27889
(e) None of these

Correct Choice: (a)

Solution:

$$\begin{aligned} 141 + 920 &= \sqrt{?} + 894 \\ = \sqrt{?} &= 167 \\ ? &= 27889 \end{aligned}$$

48. What will come in place of question mark (?) in the following questions?
 $4376 + 3209 - 1784 + 97 = 3125 + ?$

(a) 2713

(b) 2743

(c) 2773

(d) 2793

(e) 2737

Correct Choice: (c)

Solution:

$$\begin{aligned} ? &= 7682 - 4909 \\ &= 2773 \end{aligned}$$

49. What will come in place of question mark (?) in the following questions?
 $\sqrt{?} + 14 = \sqrt{2601}$

(a) 1521

(b) 1369

(c) 1225

(d) 961

(e) 1296

Correct Choice: (b)

Solution:

$$\begin{aligned} \sqrt{?} &= \sqrt{2601} - 14 \\ &= 51 - 14 = 37 \\ ? &= 1369 \end{aligned}$$

50. What will come in place of question mark (?) in the following questions?
 $85\% \text{ of } 420 + ?\% \text{ of } 1080 = 735$

(a) 25

(b) 30

(c) 35

(d) 40

(e) 45

Correct Choice: (c)

Solution:

$$\begin{aligned} \frac{85}{100} \times 420 + \frac{?}{100} \times 1080 &= 735 \\ ? &= 35 \end{aligned}$$

51. What will come in place of question mark (?) in the following questions?
 $\frac{7}{3} \text{ of } \frac{5}{4} \text{ of } \frac{1}{9} \text{ of } 3024 = ?$

(a) 920

(b) 940

(c) 960

(d) 980

(e) 840

Correct Choice: (d)

Solution:

$$980$$

52. What will come in place of question mark (?) in the following questions?
 $30\% \text{ of } 1225 - 64\% \text{ of } 555 = ?$

(a) 10.7

(b) 12.3

(c) 13.4

(d) 17.5

(e) None of these

Correct Choice: (a)

Solution:

$$\begin{aligned} ? &= 367.5 - 355.2 \\ &= 12.3 \end{aligned}$$

53. Study the following table and answer the questions given below. Number of Tourist who visit different cities by different modes of transport.

CITIES		VEHICLE				
		CAR	TRAIN	BUS	BIKE	BY AIR
DELHI		192	188	172	191	174
MUMBAI		180	166	178	187	182
CHANDIGARH		156	194	163	181	148
DEHRADUN		132	185	142	170	148
MASURI		149	159	155	149	183
JAIPUR		168	163	158	142	174

What are the average number of tourists who comes by Train?

- (a) 190.5 (b) 188.5
(c) 175.83 (d) 137.5
(e) None of these

Correct Choice: (c)

Solution:

Average number of tourists which go by train

$$= \frac{188+166+194+185+159+163}{6}$$

$$= 175.83$$

54. Study the following table and answer the questions given below. Number of Tourist who visit different cities by different modes of transport.

CITIES		VEHICLE				
		CAR	TRAIN	BUS	BIKE	BY AIR
DELHI		192	188	172	191	174
MUMBAI		180	166	178	187	182
CHANDIGARH		156	194	163	181	148
DEHRADUN		132	185	142	170	148
MASURI		149	159	155	149	183
JAIPUR		168	163	158	142	174

What is the difference between the total number of tourists who went to Mumbai and Masuri by all vehicle?

- (a) 78 (b) 98
(c) 88 (d) 83
(e) None of these

Correct Choice: (b)

Solution:

Total tourist of Mumbai = 893

Total tourist of Masuri = 795

Difference = 98

55. Study the following table and answer the questions given below. Number of Tourist who visit different cities by different modes of transport.

CITIES		VEHICLE				
		CAR	TRAIN	BUS	BIKE	BY AIR
DELHI		192	188	172	191	174
MUMBAI		180	166	178	187	182
CHANDIGARH		156	194	163	181	148
DEHRADUN		132	185	142	170	148
MASURI		149	159	155	149	183
JAIPUR		168	163	158	142	174

What is the percent of tourist who went to Dehradun by train to the tourist who went to Chandigarh by Air?

- (a) 125 (b) 145

(c) 137

(d) 160

(e) None of these

Correct Choice: (a)

Solution:

Required percentage

$$= \frac{185}{148} \times 100 = 125\%$$

56. Study the following table and answer the questions given below. Number of Tourist who visit different cities by different modes of transport.

CITIES	VEHICLE				
	CAR	TRAIN	BUS	BIKE	BY AIR
DELHI	192	188	172	191	174
MUMBAI	180	166	178	187	182
CHANDIGARH	156	194	163	181	148
DEHRADUN	132	185	142	170	148
MASURI	149	159	155	149	183
JAIPUR	168	163	158	142	174

What is the difference between the average number of tourist who went by Air to the average number of tourist who went by Bus?

(a) 7.58

(b) 9.97

(c) 6.83

(d) 2.30

(e) None of these

Correct Choice: (c)

Solution:

Average of tourists who go by air

$$= 168.16$$

Average of tourists who go by bus = 161.33

Required difference = 6.83

57. Study the following table and answer the questions given below. Number of Tourist who visit different cities by different modes of transport.

CITIES	VEHICLE				
	CAR	TRAIN	BUS	BIKE	BY AIR
DELHI	192	188	172	191	174
MUMBAI	180	166	178	187	182
CHANDIGARH	156	194	163	181	148
DEHRADUN	132	185	142	170	148
MASURI	149	159	155	149	183
JAIPUR	168	163	158	142	174

What is the respective ratio of the number of tourist went to Delhi by Car and who went to Mumbai by air?

(a) 35 : 83

(b) 45 : 71

(c) 96 : 91

(d) 32 : 7

(e) None of these

Correct Choice: (c)

Solution:

Required ratio

$$= 192 : 182$$

$$= 96 : 91$$

58. If the wheel of a bicycle makes 560 revolutions in travelling 1.1 km, what is its radius? (use $\pi = 22/7$)

(a) 31.25cm

(b) 37.75cm

(c) 35.15cm

(d) 11.25cm

(e) None of these

Correct Choice: (a)

Solution:

$$\begin{aligned} \text{Perimeter} &= \frac{1.1 \times 1000}{560} \text{ m} \\ 2 \times \frac{22}{7} \times r & \\ &= \frac{1.1 \times 100}{56} \\ &= \frac{110 \times 7}{56 \times 22 \times 2} \\ &= \frac{5}{16} \text{ m} \\ &= 31.25 \text{ cm} \end{aligned}$$

59. Elena's age after 15 years will be 5 times her age 5 years back, What is the present age of Elena?

(a) 10

(b) 37

(c) 35

(d) 11

(e) None of these

Correct Choice: (a)

Solution:

$$\begin{aligned} \text{Let Elena's age} &= x \\ &= x + 15 \\ &= 5(x - 5) \\ x &= 10 \text{ years} \end{aligned}$$

60. A man purchased a cow for Rs. 3000 and sold it the same day for Rs. 3600, allowing the buyer a credit of 2 years. If the rate of interest be 10% per annum, then the man has a gain of?

(a) 5%

(b) 0%

(c) 20%

(d) 10%

(e) None of these

Correct Choice: (b)

Solution:

$$\begin{aligned} \text{Man's interest for 2 years} & \\ &= \frac{3000 \times 2 \times 10}{100} \\ &= 600 \\ \therefore \text{After two years, the man will pay} & \\ &= 3000 + 600 \\ &= 3600 \text{ Rs.} \\ \text{So then is 0\% gain} & \end{aligned}$$

61. A man takes 3 hours 45 minutes to row a boat 15 km downstream of a river and 2 hours 30 minutes to cover a distance of 5 km upstream. Find the speed of the current.

(a) 1 kmph

(b) 3 kmph

(c) 5 kmph

(d) 2 kmph

(e) None of these

Correct Choice: (a)

Solution:

$$\begin{aligned} \text{Let downstream speed} &= x \\ \text{Upstream speed} &= y \\ \frac{15}{x} & \\ &= 3 \frac{45}{60} \\ &= \frac{15}{x} = \frac{15}{4} \\ x &= 4 \\ \frac{5}{y} &= 2 \frac{30}{60} \\ \frac{5}{y} &= \frac{5}{2} \\ y &= 2 \\ \therefore \text{Speed of current} &= 1 \text{ kmph} \end{aligned}$$

62. A cistern 6 m long and 4 m wide contains water up to a height of 1 m 25 cm. Find the total area of the wet surface.

(a) 42m square

(b) 49m square

(c) 52m square

(d) 64m square

(e) None of these

Correct Choice: (b)

Solution:

total Surface Area of wet surface

$$= 2(l + b) \times h + lb$$

$$= 2(6 + 4) \times 1.25 + 6 \times 4$$

$$= 20 \times 1.25 + 24$$

$$= 25 + 24$$

$$= 49 \text{ m square}$$

63. In terms of percentage profit, which among following the best transaction.

(a) C.P. 36, Profit 17

(b) C.P. 50, Profit 24\)

(c) C.P. 40, Profit 19

(d) C.P. 60, Profit 29

(e) C.P. 30, Profit 11

Correct Choice: (d)

Solution:

Clearly from the options Ans-option (d)

64. The milk and water in two vessels A and B are in the ratio 4:3 and 2:3 respectively. In what ratio the liquids in both the vessels be mixed to obtain a new mixture in vessel C consisting half milk and half water?

(a) 8 : 3

(b) 7 : 5

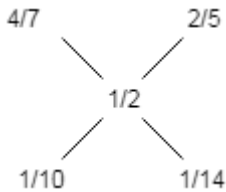
(c) 4 : 3

(d) 2 : 3

(e) None of these

Correct Choice: (b)

Solution:



$$\therefore \text{Required Ratio} = \frac{14}{10}$$

$$= 7 : 5$$

65. The average price of 10 books is Rs.12 while the average price of 8 of these books is Rs.11.75. Of the remaining two books, if the price of one book is 60% more than the price of the other, what is the price of each of these two books?

(a) Rs. 5, Rs.7.50

(b) Rs. 8, Rs.12

(c) Rs. 10, Rs.16

(d) Rs. 12, Rs.14

(e) None of these

Correct Choice: (c)

Solution:

Sum of price of the remaining two Books

$$= 12 \times 10 - 11.75 \times 8$$

$$= 26$$

∴ Let cost of First book be x

$$\therefore x + \frac{160x}{100}$$

$$= 26$$

$$\frac{260x}{100} = 26$$

$$= x = 10$$

66. A fort has provisions for 60 days. If after 15 days 500 men strengthen them and the food lasts 40 days longer, how many men are there in the fort?

(a) 3500

(b) 4000

(c) 8000

(d) 6000

(e) None of these

Correct Choice: (b)

Solution:

Let No. of soldiers = x

$$60 \times x = 15x + 40(x + 500)$$

$$60x = 15x + 40x + 20000$$

$$5x = 20000$$

$$x = 4000$$

67. If a commission of 10% is given by a truck dealer to a person on mark price of Truck then dealer gains 20%. If the commission is increased to 15% the percentage gain of dealer is ?

(a) $\frac{40}{3}$

(b) 10

(c) 15

(d) 20

(e) None of these

Correct Choice: (a)

Solution:

Let S.P. = 100

∴ After commission, price = 90

$$\therefore \text{CP} = \frac{100}{120} \times 90 = 75$$

Now, commission = 15%

$$\therefore \text{gain \%} = \frac{85-75}{75} \times 100$$

$$= \frac{4}{3} \times 10$$

$$= \frac{40}{3} \%$$

68. If a cartoon containing a dozen of mirrors is dropped, which of the following cannot be ratio of broken mirrors to unbroken mirrors.

(a) 7 : 5

(b) 3 : 1

(c) 3 : 2

(d) 2 : 1

(e) None of these

Correct Choice: (a)

Solution:

Mirrors are multiple of 12

So expect 3 : 2 all the other ratios can be divided by 12 .

69. A bag contains Rs 216 in the form of 1 Rs 50 paise & 25 paise coins in the ratio of 2 : 3 : 4. the numbers of 50 paise coins is?

(a) 140

(b) 175

(c) 184

(d) 160

(e) 144

Correct Choice: (e)

Solution:

$$2x + \frac{3x}{2} + \frac{4x}{4} = 216$$

$$\frac{8x + 6x + 4x}{4} = 216$$

$$\frac{18x}{4} = 216$$

$$\Rightarrow x = 48$$

$$\therefore \text{No of 50 paise coin} = 48 \times 3 = 144$$

70. A is twice as fast as B & B is trice as fast as C. The journey covered by C in 42 min. Will be covered by B in ?

(a) 14min

(b) 4min

(c) 5min

(d) 6min

(e) 8min

Correct Choice: (a)

Solution:

Ratio of their speeds = 6 : 3 : 1

Ratio of their time = $\frac{1}{6} : \frac{1}{3} : \frac{1}{1} = 1 : 2 : 6$

\therefore Time taken by B = $\frac{42}{6} \times 2$
= 14 min

71. The CP of two dozen mangoes is Rs 32, after selling 18 mangoes at 12 Rs per dozen, the shopkeeper reduced the rate as Rs 4 per dozen. Then find the loss percentage ?

- (a) 15 (b) 20
(c) 25 (d) 37.5
(e) None of these

Correct Choice: (d)

Solution:

Total CP = 32

Total SP = 12 + 6 + 2 = 20

\therefore Loss percentage = $\frac{12}{32} \times 100$
= 37.5 %

72. Directions : Study the following information carefully to answer these questions.

A vehicle starts from point P and run 10 km towards North. It takes a right turn and runs 15 km. Now It runs 6 km after taking a left turn. Finally, It takes a left turn, runs 15 km and stops at point Q.

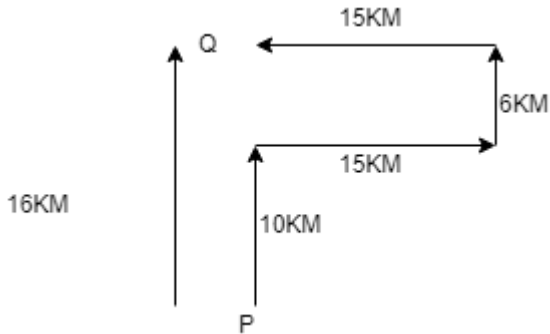
How far is point Q with respect to point P?

- (a) 16 km (b) 25 km
(c) 4 km (d) 0 km
(e) None of these

Correct Choice: (a)

Solution:

(a)



73. In a row of 34 students, W is fifth after X from the front and X is 20th from the back. What is the position of W from the front?

- (a) 20 (b) 25
(c) 30 (d) 22
(e) None of these

Correct Choice: (a)

Solution:

(a)

x is 20th from the back. The position of w from the back is (20-5) = 15th

Hence the position of W from the front is (34-15+1) = 20th

74. How many kg of rice, of cost 9 Rs/kg must be mixed with 27 kg of rice of cost 7 Rs/kg get a gain of 10 % by selling the mixture at 9.24 Rs/kg?

- (a) 60 (b) 71
(c) 63 (d) 65

(e) None of these

Correct Choice: (c)

Solution:

Selling Price(SP) of 1 kg mixture = Rs. 9.24 Profit = 10%

Cost Price(CP) of 1 kg mixture =

$$100SP/(100+Profit\%) = 100 \times 9.24 / (100+10) = 924/110 = 8.4$$

CP of 1 kg rice of 1st kind	CP of 1 kg rice of 2nd kind
Rs. 9	Rs. 7
	Rs. 8.4
$8.4 - 7 = 1.4$	$9 - 8.4 = 0.6$

Ratio = $1.4 : 0.6 = 14 : 6 = 7 : 3$ Suppose x kg of kind1 rice is mixed with 27 kg of kind2 rice. then $x : 27 = 7 : 3 \Rightarrow 3x = 27 \times 7 \Rightarrow x = 9 \times 7 = 63$

75. Directions : Study the following information carefully to answer these questions.

Eight friends A, B, C, D, E, F, G and H are sitting around a circle facing the center. A sits third to the left of B, while second to the right of F. D does not sit next to A or B. C and G always sit next to each other. H never sits next to D and C does not sit next to B.

Which of the following pairs sits between H and E?

(a) F, D

(b) H, B

(c) C, G

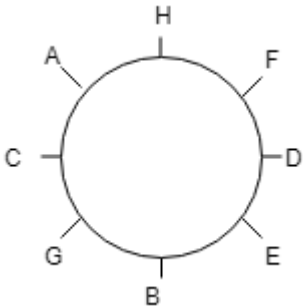
(d) E, G

(e) None of these

Correct Choice: (a)

Solution:

(a)



76. Directions : Study the following information carefully to answer these questions.

Eight friends A, B, C, D, E, F, G and H are sitting around a circle facing the center. A sits third to the left of B, while second to the right of F. D does not sit next to A or B. C and G always sit next to each other. H never sits next to D and C does not sit next to B.

Starting from A's position, if all the eight were arranged in alphabetical order in clockwise direction the seating position of how many members (excluding A) not change?

(a) None

(b) One

(c) Two

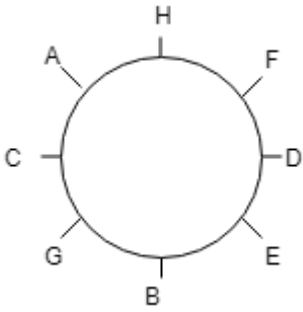
(d) Three

(e) None of these

Correct Choice: (d)

Solution:

(d)



77. Directions : Study the following information carefully to answer these questions.

Eight friends A, B, C, D, E, F, G and H are sitting around a circle facing the center. A sits third to the left of B, while second to the right of F. D does not sit next to A or B. C and G always sit next to each other. H never sits next to D and C does not sit next to B.

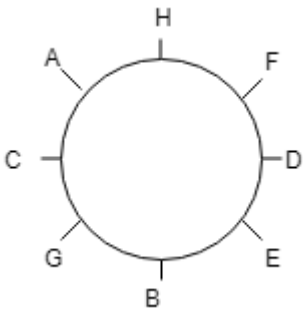
Which of the following pairs has only one person sitting between them, if the counting is done in clockwise direction?

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

Correct Choice: (c)

Solution:

(c)



78. Directions : Study the following information carefully to answer these questions.

Eight friends A, B, C, D, E, F, G and H are sitting around a circle facing the center. A sits third to the left of B, while second to the right of F. D does not sit next to A or B. C and G always sit next to each other. H never sits next to D and C does not sit next to B.

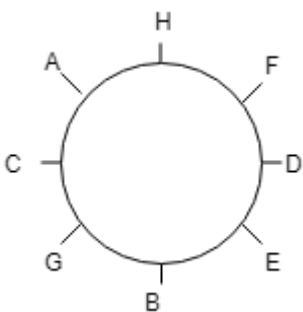
Who sits to the immediate right of E?

- (a) A
- (b) D
- (c) F
- (d) H
- (e) None of these

Correct Choice: (b)

Solution:

(b)



79. Directions : Study the following information carefully to answer these questions.

Eight friends A, B, C, D, E, F, G and H are sitting around a circle facing the center. A sits third to the left of B, while second to the right of F. D does not sit next to A or B. C and G always sit next to each other. H never sits next to D and C does not sit next to B.

What is the position of B with respect to C?

(a) Second to the left

(b) Third to the right

(c) Third to the left

(d) Can't be determined

(e) None of these

Correct Choice: (e)

Solution:

(e)

