1. An alloy contains 20% zinc, 45% nickel and rest auminium. The total mass in gm of the alloy containing 105 gm of aluminium is

$$Tobl = \frac{105}{35} \times 160 = 300$$

2. 19 students appear in a class test. The average of the best 10 scores is 69 while that of the worst 10 is 38. If the average of all the 19 scores is 54, the 10th score in order of magnitude is

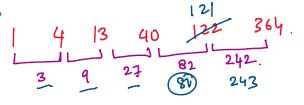
Arg
$$69 38$$
 $1001 690 + 380 =$

Avg
$$\stackrel{6}{6}9$$
 $\stackrel{38}{38}$ 1070 , $= 1026 + 10^{10}$ for $= 1026 +$

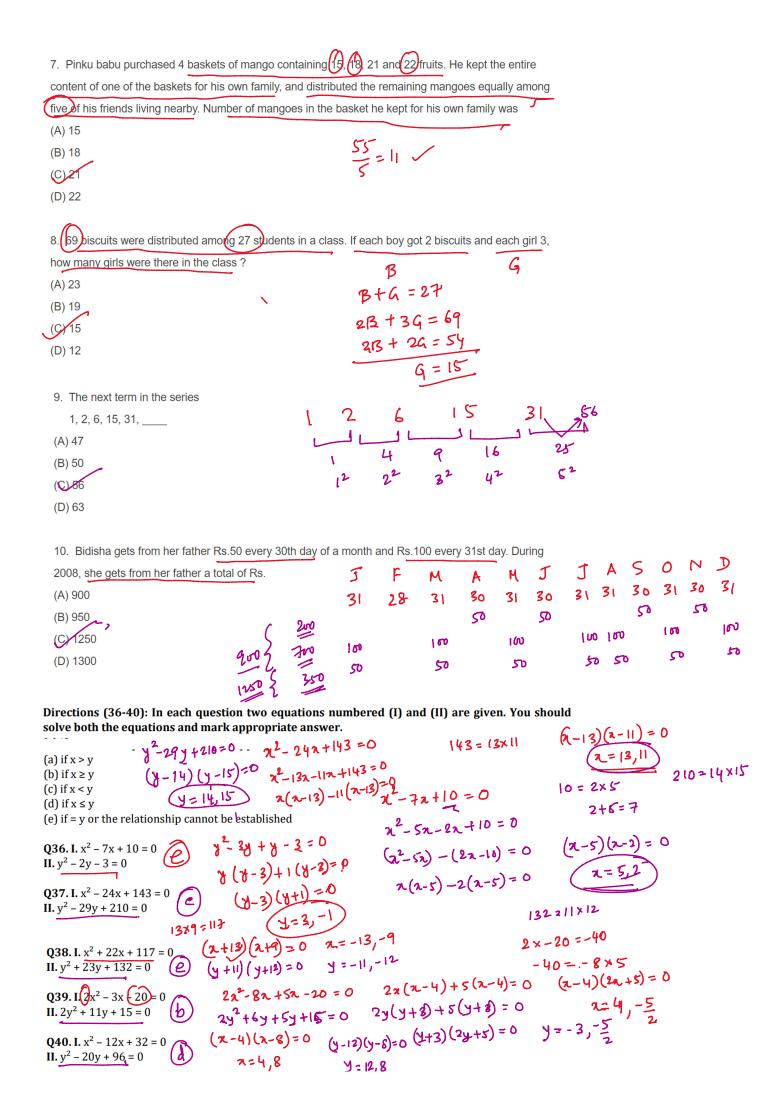
3. 50 added to 60% of a number is the number itself. The number is

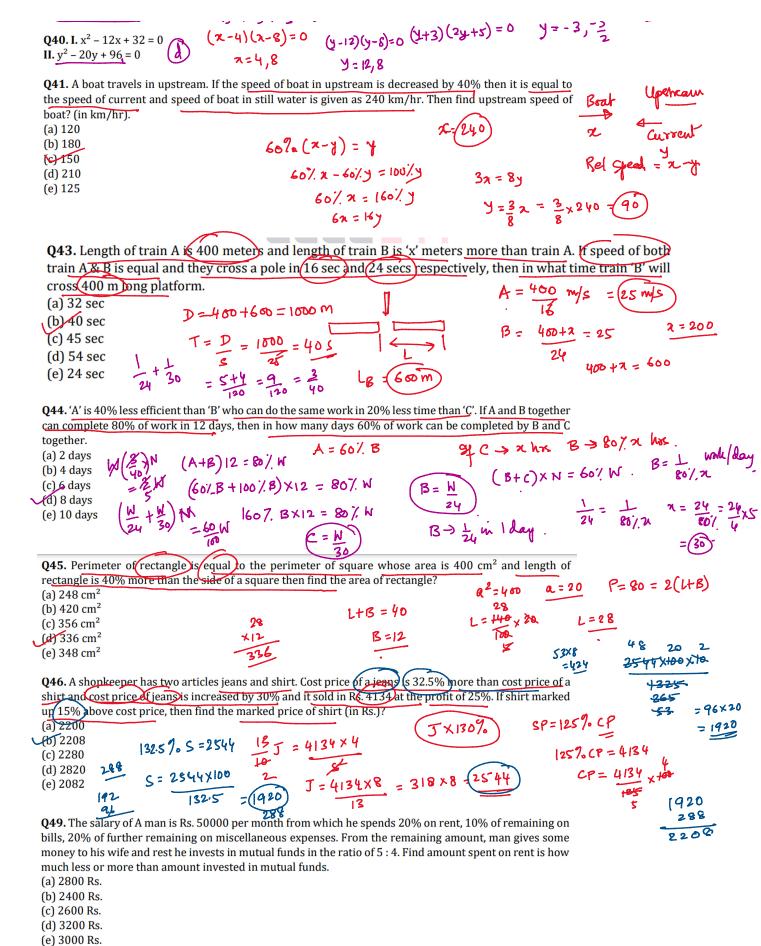
$$(150\% - 60\%) x = 50 \qquad x = 50 \times +60 = 125$$

- (B)6
- (C)7
- (D) 8
- 5. Which number in the following sequence is incorrect?



6. In a college union election for the post of General Secretary, Surupa secured 60% of the total votes and defeated Ananya by a margin of 60 votes in a direct contest. Total number of valid votes was





Direction (51 - 55): Table Given below shows total number of male visitors on four different days to a park and it also shows percentage of female visitors on these four days. Read the data carefully and answer the questions.

| Days | Total male visitors | Percentage of |
|-----------|---------------------|-----------------|
| | | female visitors |
| Sunday | 120 | 76% |
| Monday | 280 | 30% |
| Tuesday | 500 | 37.5% |
| Wednesday | 420 | 40% |

Q51. Total female visitors on Sunday & Monday together is how much more or less than total number of female visitors on Tuesday & Wednesday together.

| (a) 160 | |
|---------|--|
| (b) 140 | |
| (c) 120 | |
| (d) 100 | |
| (e) 80 | |

Q52. Total visitors on Wednesday are what percent more than total number of visitors on Sunday?

| (a) 60% | |
|---------|--|
| (b) 20% | |
| (c) 40% | |
| (d) 80% | |

(e) 50%

Q53. Total number of male visitors on Friday are 25% more than total number of male visitors on Monday, while total number of female visitors on Friday are 40% more than total number of visitors on Tuesday. Find total visitors on Friday?

(a) 1470 (b) 1050 (c) 1620 (d) 1200 (e) 1170

Q54. Total number of visitors on Wednesday is how much more than total number of female visitors on Sunday and Monday together?

(a) 300 (b) 200 (c) 250 (d) 350

(e) 150

Q55. If there is one guide for per five visitors on each day, then find total **number** of guides required for all visitors on these four days?

(a) 240 (b) 480

(c) 220

(d) 440

(e) 460

Direction (61-65): Read the data carefully and answer the questions.

There are 450 students in a school and there are two sections A & B in the school. There are three streams in each section i.e., Art, Science & Commerce. $\frac{75}{4}$ % of total students in A are in Commerce and $\frac{200}{7}$ % of total students in B are in Science. Sum of total students in Commerce in A & total students in Science in B is 105. $\frac{400}{21}$ % of total students in B are in Commerce and 50% of total students in A are in Art.

Q61. Total students in Art in A is what percent more than total students in Science in B?

| (a) 75% (b) 70% (c) 90% (d) 100% (e) 110% |
|---|
| Q62. Find the ratio of total students in Commerce in B to total students in Science in A? |
| (a) 8: 15 (b) 8: 17 (c) 8: 13 (d) 8: 11 (e) 8: 9 |
| Q63. If in other section C, total students are 180 and total student in Science in C are 25% more than total students in Commerce in B, then find total students in Art & Commerce in C is how much less than total students in Art & Commerce in A? (a) 55 (b) 60 (c) 65 (d) 45 (e) 35 |
| Q64. Find the average number of students in Science in A & B? (a) $\frac{125}{2}$ (b) $\frac{135}{2}$ (c) 120 (d) 130 (e) 145 |
| Q65. If out of total students in Art in A & B, ratio of boys to girl is 5:3 and 7:4 respectively, then find total boys in Art from both sections? (a) 125 (b) 135 (c) 145 (d) 115 (e) 105 |
| Direction (66-70): Study the following information carefully and answer the questions given below: |
| Eight persons i.e. A, B, C, D, P, Q, R and S are sitting around a rectangular table in such a way that four persons sit on each of the four corner of the table and other four persons sit on the middle of each side. The one who sits at the corner of table faces opposite to center of table and the one who sits at the middle side of table faces towards the center of table. Persons sitting on opposite sides are exactly opposite to each other. Q sits immediate to the right of D. Both R and C are sitting opposite to each other. Only one person sits between A and B, who does not sit near to D. C sits near to Q. Two persons sit between D and S, who faces to the center. |
| Q66. Who among the following sits 3 rd to the right of P? |
| (a) A (b) B (c) Q (d) D (e) None of these |

| Q67. How many persons sit between P and Q, when counted to the left of P? |
|--|
| (a) One |
| (b) Two |
| (c) Four |
| (d) Either (b) or (c) |
| (e) None of these |
| Q68. Four of the following five are alike in a certain way and hence they form a group. Which one of the |
| following does not belong to that group? |
| (a) R |
| (b) D |
| (c) P |
| (d) C |
| (e) B |
| Q69. Which of the following is not true regarding P? |
| (a) C sits 2 nd to the left of P |
| (b) P sits immediate to the right of B |
| (c) D sits opposite to P |
| (d) Two persons sit between P and R, when counted to the left of R |
| (e) All are true |
| Q70. What is the position of R with respect to Q? |
| (a) 2 nd to the right |
| (b) 2 nd to the left |
| (c) 3 rd to the left |
| (d) 3 rd to the right |
| (e) None of these |
| |
| Directions (71-73): Study the information carefully and answer the questions given below. |
| |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter- |
| |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law (d) Brother-in-law |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law (d) Brother-in-law (e) None of these Q72. How is K related to L? |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law (d) Brother-in-law (e) None of these Q72. How is K related to L? (a) Daughter |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law (d) Brother-in-law (e) None of these Q72. How is K related to L? (a) Daughter (b) Mother-in-law |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law (d) Brother-in-law (e) None of these Q72. How is K related to L? (a) Daughter (b) Mother-in-law (c) Daughter-in-law |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law (d) Brother-in-law (e) None of these Q72. How is K related to L? (a) Daughter (b) Mother-in-law (c) Daughter-in-law (d) Sister |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law (d) Brother-in-law (e) None of these Q72. How is K related to L? (a) Daughter (b) Mother-in-law (c) Daughter-in-law |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law (d) Brother-in-law (e) None of these Q72. How is K related to L? (a) Daughter (b) Mother-in-law (c) Daughter-in-law (d) Sister (e) None of these |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law (d) Brother-in-law (e) None of these Q72. How is K related to L? (a) Daughter (b) Mother-in-law (c) Daughter-in-law (d) Sister (e) None of these |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law (d) Brother-in-law (e) None of these Q72. How is K related to L? (a) Daughter (b) Mother-in-law (c) Daughter-in-law (d) Sister (e) None of these Q73. Who among the following is son of M? (a) H (b) G |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law (d) Brother-in-law (e) None of these Q72. How is K related to L? (a) Daughter (b) Mother-in-law (c) Daughter-in-law (d) Sister (e) None of these Q73. Who among the following is son of M? (a) H (b) G (c) T |
| Eight persons in three generation of the family. K is daughter in law of G. M is father of L, who is daughter-in-law of P. H is brother-in-law of G and only son of F. T is grandson of F. H is unmarried. G is male. M has two child. Q71. How is M related to G? (a) Father (b) Brother (c) Father-in-law (d) Brother-in-law (e) None of these Q72. How is K related to L? (a) Daughter (b) Mother-in-law (c) Daughter-in-law (d) Sister (e) None of these Q73. Who among the following is son of M? (a) H (b) G |

Q74. What is the code of 'opposite' as per the given code language? (a) ap (b) gi (c) mn (d) as (e) None of these **Q75.** What is the code of 'same' as per the given code language? (a) ap (b) sw (c) mn (d) as (e) None of these **Q77.** What is the code of 'equal work' as per the given code language? (a) gi ds (b) sw kl (c) as gi (d) as sw (e) None of these Directions (78-82): Study the following information carefully and answer the question given below. Seven students A, B, D, E, G, H and L have practical exams on different day of the same week starting from Monday to Sunday, but not necessarily in the same order. Only one student has a practical exam There are more than three students have practical exam after A. Only one student has practical exam between A and H. There are three students have practical exam between G and B. G has practical exam before H but not immediate before H. There are three students have practical exam between D and E, who does not have practical exam in the last day of week. **Q78.** On which of the following day L has practical exam? (a) Tuesday (b) Thursday (c) Saturday (d) Monday (e) None of these Q79. Who among the following has practical exam on Wednesday? (a) A (b) H (c) G (d) E (e) None of these Q80. How many students have exam between E and B? (a) No one (b) One

Direction (74-77): Study the following information carefully and answer the questions given below:

In a certain code language

(c) Two (d) Three

(e) More than three

'work just not done' is coded as 'ds gi nj hq'
'work same and equal' is coded as 'gi sw as xz'
'same case just opposite' is coded as 'sw ds ap kl'
'not opposite but equal' is coded as 'mn ap nj as'

| Q82. Four of the following five belong to a group in a certain way, find which of the one does not belong to that group?(a) A, G(b) H, E(c) L, B(d) E, A(e) B, D |
|--|
| Directions (83-85): In these questions, relationship between different elements is show in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer: (a) If only conclusion I follows. (b) If only conclusion II follows. (c) If either conclusion I or II follows (d) If neither conclusions I and II follows. (e) If both conclusions I and II follow. |
| Q83. Statements: J=Q>R=V>B=Y>K≥M Conclusion I: R>Y II: J <b< td=""></b<> |
| Q84. Statements: $Q=TX\geq G>P=Z<0$ Conclusion I: $Z\leq I$ II: $O>G$ |
| Q85. Statements: S>F≥B=D≤P=E≤L>Q Conclusion I: E>B II: B=E |
| Point P is 8m west of point G. Point G is 16m east of point T. Point H is east of point E. Point E is 5m northwest of point L. Point A is 12m south of point F and point P is midpoint between them. Point L is 8m south of point S. Point H is midpoint between point L and S. Point T is 14m south of point E. |
| Q86. If Point B is west of point A and south of point S, then what is the distance between point A and point B? |
| (a) 13m (b) 7m (c) 6m (d) 5m (e) None of these |
| Q87. In which direction point L is with respect to point F? |
| (a) South (b) South-east (c) North-east (d) East (e) None of these |
| Q88. What is the distance between point E and point H? (a) 7m (b) 3m |

 $\textbf{Q89.} \ \text{How many pairs of letters are there in the word "\textbf{SPARKLE}"} \ which has as many letters between them$ as we have in the English alphabetical series (from both forward and backward direction)?

(a) One

(c) 4m (d) 5m

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

(e) None of these

 $\textbf{Q90.} \ \ \text{Which of the following is second letter from the left end of the meaningful word formed by the 1st, 3rd, and 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, and 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, and 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, are the second letter from the left end of the meaningful word formed by the 1st, 3rd, are the second letter from the left end of the meaningful word formed by the second letter from the left end of the$ 5^{th} , and 6^{th} letter of the word "DRAWER" If more than one word is formed mark X as your answer. If no such word is formed mark Y as your answer?

- (b) D (c) E (d) X
- (e) Y