

**Decision Making and Problem Solving, Logical reasoning, Visual Reasoning,
Alpha Numeric Reasoning**

1. A and B are brothers, C and D are brothers. A's son is D's brother, how is B related to C?

- (A) Father
- (B) Brother
- (C) Grandfather
- (D) Uncle

Answer: (D) Uncle.

2. Murali's present age is half of his father's age. Before 10 years, his father's age was thrice his age. Find the present age of Murali and his father.

- (A) 16, 32 years
- (B) 15, 30 years
- (C) 20, 40 years
- (D) 17, 34 years

Answer: (C) 20, 40 years.

3. Arun's age is half as his father. Twelve years ago, his father's age was three times that of Arun's, what is the present age of Arun?

- (A) 24
- (B) 48
- (C) 36
- (D) 12

Answer: (A) 24.

4. The sum of the ages of Rani and Mari is 14 years more than the sum of ages of Mari and Nancy. Find how many years Nancy is younger than Rani?

- (A) 12
- (B) 16
- (C) 14
- (D) 28

Answer: (C) 14.

5. A mother is 20 years older than her daughter, 4 years before she was 5 times of her daughter's age at that time. How old is the daughter now?

- (A) 9
- (B) 12
- (C) 18
- (D) 16

Answer: (A) 9.

6. Ram starts from a point A and walks 6 Km North, then turns left and walks 8 Km, then turns left and walks 12 Km upto the point B. What is the direction of Ram?

- (A) North
- (B) South
- (C) East
- (D) West

Answer: (B) South.

7. In a row of students the place of Rahul from right is 12th and from left is 4th. How many students should be added to make the total number of students 28?

- (A) 14
- (B) 13
- (C) 20
- (D) 18

Answer: (B) 13.

8. A person travels from A to B at an average speed of 60 km / hr and B to C at 50 km / hr and C to D at 40 km / hr. The distance from A to B, B to C, C to D are equal. What is the average speed of the whole journey?

- (A) 37.68 km / hr
- (B) 48.65 km / hr
- (C) 45.68 km / hr
- (D) 50.00 km / hr

Answer: (B) 48.65 Km / hr.

9. From Trichy bus stand if we buy 3 tickets to Karur and 2 tickets to Pudukottai, the total cost is Rs. 85, but if we buy 2 tickets to Karur and one ticket to Pudukottai, the total cost is Rs.50. Find the fares from Trichy to Karur and Pudukottai.

(A) Rs. 15, Rs. 20

(B) Rs. 17, Rs. 23

(C) Rs. 19, Rs. 31

(D) Rs.30, Rs.20

Answer: (A) Rs. 15, Rs. 20.

10. Three shirts and four pants cost Rs. 3,680. Two pants and one shirt cost Rs. 1,680. Find the costs of a shirt and a pant?

(A) Rs.320 and Rs.680

(B) Rs.300 and Rs.600

(C) Rs.400 and Rs.450

(D) Rs.310 and Rs.690

Answer: (A) Rs.320 and Rs.680.

11. An employee spends on an average Rs. 2,500 for the first 8 months of a year and Rs. 1,500 for the next 4 months. If he saves Rs. 10,000 that year, then his monthly income is

(A) 2,500

(B) 3,000

(C) 2,600

(D) 3,200

Answer: (B) 3,000.

12. The income in 3 months of a person is same as his expenditure in 4 months. If his annual savings is Rs.600. What is his monthly income?

(A) Rs.200

(B) Rs.250

(C) Rs.300

(D) Rs.600

Answer: (A) Rs. 200.

13. In a group of cows and hens, the number of legs are 14 more than twice the number of heads. The number of cows is

- (A) 5
- (B) 7
- (C) 10
- (D) 12

Answer: (B) 7.

14. There are deer and peacocks in a zoo. Total number of their heads is 80. The total number of their legs is 200. How many peacocks are there?

- (A) 20
- (B) 30
- (C) 50
- (D) 60

Answer: (D) 60.

15. A train 150 metres long passes a telegraph post in 12 seconds. Find the speed of the train.

- (A) 15 km / hr
- (B) 30 km / hr
- (C) 45 km / hr
- (D) 60 km / hr

Answer: (C) 45 km / hr.

16. A book contains 144 pages. Each page contains 25 lines. How many pages will the book contain if every page has 24 lines?

- (A) 120
- (B) 130
- (C) 150
- (D) 140

Answer: (C) 150.

17. If a particular amount distributed to each of 14 students is Rs. 80 more than the amount distributed to each of 18 students, find the amount.

(A) Rs. 5040

(B) Rs. 3150

(C) Rs. 2520

(D) Rs.4200

Answer: (A) Rs. 5040.

18. A car is travelling at the average speed of 50 Km / hr. Find the distance covered in 12 minutes

(A) 5 km

(B) 8 km

(C) 10 km

(D) 12 km

Answer: (C) 10 Km.

19. In a clock, the angle traced by the hour hand in 12 hours is

(A) 360 degree

(B) 180 degree

(C) 90 degree

(D) 30 degree

Answer: (A) 360 degree

20. If two third of four fifth of seven eighth of a number is 63 then the number is

(A) 630

(B) 360

(C) 135

(D) 35

Answer: (C) 135.

21. The average of the non-zero number and its square is five times the number, then the number is

(A) 9

(B) 10

(C) 7

(D) 6

Answer: (A) 9.

22. If the sum of a rational number and its reciprocal is $\frac{13}{6}$ then the number is

(A) $\frac{2}{3}$ or $\frac{3}{2}$

(B) $\frac{1}{2}$ or 2

(C) $\frac{5}{2}$ or $\frac{2}{5}$

(D) $\frac{2}{7}$ or $\frac{7}{2}$

Answer: (A) $\frac{2}{3}$ or $\frac{3}{2}$

23. What integer must be added to each of the four numbers 10, 18, 22, 38 so that they become a proportion?

(A) 4

(B) 14

(C) 2

(D) 12

Answer: (C) 2.

24. 3 - 25 here, which of the following number is suitable in 1, so that the number will be a perfect square?

(A) 1

(B) 0

(C) 4

(D) 6

Answer: (B) 0.

25. How many numbers from 1 to 100 are there each of which is not only exactly divisible by 4 but also has 4 as a digit

(A) 7

(B) 14

(C) 21

(D) 10

Answer: (A) 7.

26. If the fractions $\frac{1}{2}$, $\frac{2}{3}$, $\frac{5}{9}$, $\frac{6}{13}$ and $\frac{7}{9}$ are arranged in ascending order of their values which one will be the fourth?

(A) $\frac{7}{9}$

(B) $\frac{5}{9}$

(C) $\frac{6}{13}$

(D) $\frac{2}{3}$

Answer: (D) $\frac{2}{3}$.

27. If $235 = 38$ and $452 = 45$ then $345 = ?$

(A) 49

(B) 66

(C) 72

(D) 50

Answer: (D) 50.

28. If $5 \oplus 3 = 34$ and $6 \oplus 2 = 40$ then, the value of $7 \oplus 1$ is

(A) 54

(B) 34

(C) 50

(D) 30

Answer: (C) 50.

29. If $5^a = 6$, $6^b = 7$, $7^c = 5$, then find the value of abc .

(A) 0

(B) -1

(C) 2

(D) 1

Answer: (D) 1.

30. $\frac{1}{2}$ of $\frac{3}{4}$ of $\frac{4}{9}$ of a number is 60. Then find the number

(A) 300

(B) 120

(C) 180

(D) 360

Answer: (D) 360.

31. If $4 * 8 = 144$ and $6 * 9 = 225$, then what is the value of $7 * 10$?

(A) 256

(B) 289

(C) 170

(D) 17

Answer: (B) 289.

32. If $-$ means \div , $+$ means \times , \div means $-$, \times means $+$, then which of the following equation is correct?

(A) $52 \div 4 + 5 \times 8 - 2 = 36$

(B) $43 \times 7 \div 5 + 4 + 8 = 25$

(C) $36 - 4 \div 12 + 5 \times 3 = 430$

(D) $36 - 12 \times 6 \div 3 + 4 = 60$

Answer: (A) $52 \div 4 + 5 \times 8 - 2 = 36$.

33. If $2 \div 3 = \frac{B}{C}$, $3 \div 2 = \frac{C}{B}$, $4 \div 3 = \frac{D}{C}$ then $1 \div 2 = ?$

(A) B / C

(B) C / B

(C) D / C

(D) A / B

Answer: (D) A / B

34. If TRIANGLE is coded as SQHZMFKD which word would be coded as DWZLOKD?

(A) DISMISS

(B) DISJOIN

(C) ADJOINT

(D) EXAMPLE

Answer: (D) EXAMPLE

35. If DELHI is coded as 73541 and CALCUTTA as 82589662 how can CALICUT be coded?

- (A) 5279431
- (B) 5978213
- (C) 8251896
- (D) 8543691

Answer: (C) 8251896

36. If TNPC = 5791 and CUP = 169 then CPU = ?

- (A) 159
- (B) 196
- (C) 791
- (D) 971

Answer: (B) 196.

37. If ROAD is coded as URDG then SWAN is coded as

- (A) VXDQ
- (B) VZDQ
- (C) VZCP
- (D) UXDQ

Answer: (B) VZDQ

38. If C = 3, CALL = 28 then CELL =

- (A) 30
- (B) 31
- (C) 32
- (D) 33

Answer: (C) 32.

39. 'Clerk' is related to 'office' with the same way as 'servant' is related to

- (A) House
- (B) Boss
- (C) Master
- (D) Order

Answer: (A) House.

40. A father said to his son, "Your age now is the same as my age at the time of your birth". If the father's age is 38 years now, the son's age five years back was

- (A) 14
- (B) 19
- (C) 24
- (D) 38

Answer: (A) 14.

41. A person's age is two fifth of the age of his mother. After 8 years, he will be one half of the age of his mother. How old is the mother at present?

- (A) 42
- (B) 40
- (C) 45
- (D) 48

Answer: (B) 40.

42. If X is the sister of the son of Y's son then how X is related to Y?

- (A) Grandson
- (B) Grand Daughter
- (C) Sister
- (D) Brother

Answer: (B) Grand Daughter.

43. A is B's sister, C is B's mother, D is C's father, E is D's mother. Then A is the

- (A) Grand mother
- (B) Grand father
- (C) Daughter
- (D) Grand daughter

Answer: (D) Grand daughter

44. From his house, Sathish went 15 Kms to the North, then he turned west and covered 8 Kms, then he turned south and covered 6 Kms. Finally, turning to east, he covered 8 Kms then in which direction is he from his house?

- (A) East

- (B) West
- (C) North
- (D) South

Answer: (C) North.

45. Mohan started from point P and walked 2 m towards west. He then took a right turn and walked 3 m before taking a left turn and walked 5 m. He finally took a left turn, walked 3 m and stopped at a point Q. How far is point Q from point P?

- (A) 2 m
- (B) 6 m
- (C) 7 m
- (D) 8 m

Answer: (C) 7 m.

46. A is richer than B, C is richer than A, D is richer than C, E is the richest of all. If they are made to sit in the above degree of richness, who will have the central position?

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

Answer: (C) C.

47. Richard is 15th from the front in a column of boys. There were thrice as many behind him as there were in front. How many boys are there between Richard and the seventh boy from the end of the column?

- (A) 33
- (B) 34
- (C) 35
- (D) 36

Answer: (C) 35.

48. A voluntary organization planted a total of 106 trees along the roadside. Some of the trees were fruit bearing trees. If the number of non - fruit bearing trees was two more than thrice the number of fruit bearing trees, what was the number of fruit bearing trees planted?

- (A) 20

(B) 22

(C) 24

(D) 26

Answer: (D) 26.

49. There are 5 friends P, Q, R, S and T. P knows more than S. Q knows as much as T. R knows less than T. S knows more than Q. The best knowledgeable person amongst all is

(A) P

(B) Q

(C) S

(D) T

Answer: (A) P.

50. P, Q, R and S are to be seated in a row. R and S cannot be together. Also Q cannot be at the third place. If P and Q are together, which of the following must necessarily be true?

(A) R is not at the first place

(B) P is at the third place

(C) S is at the first place

(D) R is at the first place

Answer: (B) P is at the third place.

51. Six persons A, B, C, D, E and F are sitting in a row. B is between F and D. E is between A and C. A is next to neither F nor D. C does not sit next to D. F is between which of the following two persons?

(A) A and C

(B) C and B

(C) C and D

(D) A and B

Answer: (B) C and B.

52. Read the following statements:

1. Either A and B are of the same age or A is older than B.

2. Either C and D are of the same age or D is older than C

3. B is older than C

Which one of the conclusions can be drawn from the above statements?

- (A) A is older than C
- (B) D is older than C
- (C) A is older than B
- (D) B and D are of the same age.

Answer: (A) A is older than C.

53. Six students A, B, C, D, E and F are sitting in the field. A and B are from Nehru house while the others belong to Gandhi house. D and F are tall while the others are short. A, C and D are wearing glasses while the others are not. Which tall student of Gandhi house is not wearing glasses?

- (A) B
- (B) C
- (C) F
- (D) E

Answer: (C) F.

54. The minute hand of a circular clock is 14 cm long and that of hour hand is 7 cm. Find how far does the tip of the minute and hour hand move in 30 minutes?

- (A) 88 cm, 3.66cm
- (B) 22cm, 0.915cm
- (C) 44cm, 1.83cm
- (D) 1.83cm, 88cm

Answer: (C) 44cm, 1.83cm.

55. Babu has 540 cakes. He wants to distribute them equally to some persons. If the number of cakes given to each person is equal to 15% of the number of persons, find the number of cakes given to each person.

- (A) 60
- (B) 20
- (C) 9
- (D) 54

Answer: (C) 9.

56. An employee may claim Rs. 8 for each kilometer which he travels by taxi and Rs. 5 for each kilometer when he drives his own car. In one week he claimed Rs. 463 for travelling 80 Km. How many kilometers does he travel by taxi?

- (A) 18
- (B) 21
- (C) 24
- (D) 32

Answer: (B) 21.

57. A kite is flying with a string of length 200 m. If the thread makes an angle 30 degree with the ground. Find the distance of the kite from the ground level. (Assume the string is along a straight line)

- (A) 105 m
- (B) 50 m
- (C) 100 m
- (D) $100\sqrt{3}$ m

Answer: (C) 100 m.

58. Maximum score of an innings was $\frac{3}{11}$ of total score. In that innings, second maximum score was $\frac{3}{11}$ of remaining score. If the difference of these scores was 9, then total score was.

- (A) 106
- (B) 146
- (C) 118
- (D) 121

Answer: (D) 121.

59. A library has an average of 510 visitors on Sundays and 240 visitors on other days. The average number of visitors per day in a month of 30 days beginning with a sunday is

- (A) 250
- (B) 276
- (C) 280
- (D) 285

Answer: (D) 285.

60. If an electric train running at 108 Km per hour, crosses a tree standing by the side of a track in 10 seconds, the length of the train in metres is

- (A) 400
- (B) 350
- (C) 300
- (D) 450

Answer: (C) 300.

61. In a group of 15 people, 7 read Hindi, 8 read English while 3 of them read none of these two. How many of them read both Hindi and English?

- (A) 0
- (B) 3
- (C) 4
- (D) 5

Answer: (B) 3

62. In a group of 15 people, 7 read Hindi, 8 read English while 3 of them read none of these two. How many of them read both Hindi and English?

- (A) 0
- (B) 3
- (C) 4
- (D) 5

Answer: (B) 3.

63. In an office, $\frac{3}{4}$ of the staff can neither type nor take shorthand. However, $\frac{1}{5}$ can type and $\frac{1}{3}$ can shorthand. What part of the whole staff can do both?

- (A) $\frac{1}{5}$
- (B) $\frac{3}{40}$
- (C) $\frac{13}{40}$
- (D) $\frac{17}{60}$

Answer: (D) $\frac{17}{60}$.

64. A 2-digit number is 3 times the sum of its digits. If 45 is added to the number, its digits are interchanged. The sum of digits of the number is

- (A) 5

- (B) 7
- (C) 9
- (D) 11

Answer: (C) 9 (Repeated)

65. If + means \times , \times means $-$, \div means $+$ and $-$ means \div then what is the value of $(175-25) \div (5+20) \times (3+10)$.

- (A) 265
- (B) 78
- (C) 77
- (D) 354

Answer: (C) 77.

66. What could be the maximum value of R in the following equation where P, Q and R represent the unit values $56P + 37Q + 48R = 1418$

- (A) 4
- (B) 8
- (C) 0
- (D) 6

Answer: (B) 8.

67. One half of one third of one sixth of a number is 10. Then the number is

- (A) 350
- (B) 360
- (C) 340
- (D) 375

Answer: (B) 360.

68. The sum of the squares of three consecutive positive odd numbers is 251. Find their sum?

- (A) 25
- (B) 27
- (C) 26
- (D) 24

Answer: (B) 27.

69. In the series 6 4 1 2 2 8 7 4 2 1 5 3 8 6 2 1 7 1 4 1 3 2 8 6. How many pairs of alternate numbers have a difference of 2?

- (A) 2
- (B) 4
- (C) 6
- (D) 8

Answer: (A) 2.

70. The sum of two numbers is 65 and their difference is 11. Find the numbers. (Choose the correct one)

- (A) 38, 27
- (B) 23, 42
- (C) 30, 35
- (D) 52, 13

Answer: (A) 38, 27.

71. If $\frac{1}{4}$ of $\frac{1}{3}$ of $\frac{3}{4}$ of a number is 25. Then the number is

- (A) 200
- (B) 300
- (C) 400
- (D) 500

Answer: (C) 400.

72. Find the number whose seventh part multiplied by its eleventh part gives 1232.

- (A) 121
- (B) 49
- (C) 308
- (D) 316

Answer: (C) 308.

73. The difference of $1\frac{3}{13}$ and its reciprocal is equal to

- (A) $87 / 208$
- (B) $39 / 208$
- (C) $31 / 197$

(D) 49 / 308

Answer: (A) 87 / 208.

74. If 7 is related to 56 then 10 is related to

(A) 74

(B) 64

(C) 50

(D) 90

Answer: (D) 90.

75. The least perfect square number divisible by 3, 4, 5, 6 and 8 is

(A) 900

(B) 1200

(C) 2500

(D) 3600

Answer: (D) 3600.

76. If ORIENT is written as 532146 and SOUL is 7598 how will you write LINE?

(A) 9241

(B) 8341

(C) 8241

(D) 6241

Answer: (C) 8241.

77. If HYDROGEN is represented as JCJZYSSD how ANTIMONY will be represented as

(A) CPVKOQPA

(B) CRZQWABO

(C) ERXMQSRC

(D) GTZOSUTE

Answer: (B) CRZQWABO.

78. If "NOIDA" is written as 39658, how will "INDIA" be written?

(A) 36568

(B) 63568

(C) 63569

(D) 65368

Answer: (B) 63568.

79. If 481 means “sky is blue”, 246 means “sea is deep” and 698 means “sea looks blue” which number will denote sky?

(A) 4

(B) 8

(C) 1

(D) none of these

Answer: (C) 1.

80. Convert 1789 in Roman figure

(A) MDCCLXXXIX

(B) MDCLXXIXXI

(C) MDCCCLXIXI

(D) MMDCCCCIXI

Answer: (A) MDCCLXXXIX.

81. Which of the following words cannot be formed from the letters of the word
FUNDAMENTAL

(A) TEAM

(B) MEDAL

(C) MEAL

(D) FULL

Answer: (D) FULL.

82. If man is called as girl, girl is called as woman, woman is called as boy, boy is called as butler and butler is called as officer, who will serve in a restaurant?

(A) Butler

(B) girl

(C) Man

(D) Officer

Answer: (D) Officer.

83. A is much younger to B as he is older to C. If the sum of the ages of B and C is 48 years, what is the present age of A?

- (A) 18 years
- (B) 30 years
- (C) 24 years
- (D) 42 years

Answer: (C) 24 years.

84. In a row of girls Meena is 8th from the left and Radha is 13th from the right. If they interchange their position, Meena becomes 23rd from the left. How many girls are there in the row?

- (A) 35
- (B) 36
- (C) 40
- (D) 41

Answer: (A) 35.

85. Ramani was born on March 21st 2004. Ravi was born 7 days before Ramani. The republic day of that year falls on Monday. Which day was Ravi was born?

- (A) Sunday
- (B) Monday
- (C) Saturday
- (D) Tuesday

Answer: (A) Sunday.

86. In 2014, Arjun's father age was two times of Arjun's age. In 2002, the father's age was three times as old as Arjun's age. In 1999, product of their age is

- (A) 297
- (B) 192
- (C) 324
- (D) 412

Answer: (A) 297.

87. In a competitive examination a student scores 2 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts all 50 questions and scores 70 marks, the number of questions he attempts correctly is

- (A) 10

(B) 30

(C) 40

(D) 45

Answer: (C) 40.

88. If orange is called butter, butter is called soap, soap is called ink, ink is called honey and honey is called orange, which of the following is used for washing of cloths?

(A) Orange

(B) honey

(C) butter

(D) ink

Answer: (D) ink.

89. A father is 45 and his son is 15. In how many years will the father be twice as old as his son?

(A) 10

(B) 25

(C) 15

(D) 35

Answer: (C) 15.

90. Five persons A, B, C, D and E were walking along a street. D was ahead of A. E was following B. C was between A and B. Who was in the middle?

(A) A

(B) C

(C) B

(D) D

Answer: (B) C.

91. Two stations A and B are 220 Km apart. One train starts at A at 6 AM and moves towards B at 40 Kmph. Another train starts at B at 7 AM and moves towards A at 50 KMPH. At what time will they meet?

(A) 10 AM

(B) 9.30 AM

(C) 9 AM

(D) 11 AM

Answer: (C) 9 AM.

92. A class starts at 10 AM and lasts till 1.27 PM. Four periods are held during this interval.

After every period, 5 minutes are given free to the students. The exact duration of each period is

(A) 42 minutes

(B) 48 minutes

(C) 51 minutes

(D) 53 minutes

Answer: (B) 48 minutes.

93. If $\frac{1}{3}$ of the liquid contents of a can evaporates on the first day and $\frac{3}{4}$ of the remainder evaporates on the second day, the fractional part of the original contents remaining at the close of the second day is

(A) $\frac{5}{12}$

(B) $\frac{7}{6}$

(C) $\frac{1}{6}$

(D) $\frac{7}{12}$

Answer: (C) $\frac{1}{6}$.

94. In covering a distance of 30 Km, Rama takes 2 hours more than Rekha. If Rama doubles her speed then she would take 1 hour less than Rekha. Then Rama's speed is

(A) 5 km / hr

(B) 6 km / hr

(C) 6.25 km / hr

(D) 7.5 km / hr

Answer: (A) 5 km / hr.

95. 15 years hence A will be twice as old as his son. But 5 years ago, he was 4 times as old as his son. Their present ages are

(A) 20, 40

(B) 15, 45

(C) 30, 60

(D) 25, 50

Answer: (B) 15, 45.

96. A ladder of 25 ft length reaches a window which is 24 ft above the ground level on one side of the street. Keeping its foot at the same point the ladder is turned the other side of the street and now reaches a window of 7 ft high. Then the width of the street

- (A) 30
- (B) 32
- (C) 29
- (D) 31

Answer: (D) 31.

97. A boy introduced a girl as the daughter of the son of the father of his uncle. The girl is the boy's

- (A) Nephew
- (B) Niece
- (C) Sister
- (D) Aunt

Answer: (C) Sister.

98. Ravi travels a distance of 5 Km from a place A towards the North, turns left and walks 3 Km again, turns right and walks 2 Km, finally turns right and walks 3 Km to reach the place B. What is the distance between A and B?

- (A) 3 Km
- (B) 7 Km
- (C) 10 Km
- (D) 13 Km

Answer: (B) 7 Km

99. D is taller than C but not as tall as B, C is taller than A. Who among A B C and D is the tallest?

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

Answer: (B) B.

100. A started from a place. After walking for a kilometer in a direction he turns to the left, then walking for a half Km, he again turns to the left. Now he is going eastwards. In what direction did he originally started?

- (A) West
- (B) East
- (C) North
- (D) South

Answer: (A) West.

101. Five students P, Q, R, S and T were examined in a test. P scored higher marks than R and Q scored less marks than S. But S scored less marks than R and T scored higher marks than Q but less than R. Who scored the highest marks among five students?

- (A) R
- (B) P
- (C) T
- (D) S

Answer: (B) P.

102. In a group of students, 65 play football, 45 play hockey, 42 play cricket, 20 both hockey and football, 15 play hockey and cricket, 25 play football and cricket, 8 play all the three games.

Assuming each play atleast one game, the number of students in the group.

- (A) 500
- (B) 200
- (C) 150
- (D) 100

Answer: (D) 100.

103. If

Rama scored more than rani

Rani scored less than Rathna

Rathna scored more than Rama

Ramya scored more than Rama but less than Rathna then who scored the highest?

- (A) Rama
- (B) rani

(C) Rathna

(D) Ramya

Answer: (C) Rathna.

104. Three different containers contain 396 litres, 432 litres and 612 litres of mixtures of milk and water respectively. What biggest measure can measure all the different quantities exactly?

(A) 36

(B) 32

(C) 28

(D) 24

Answer: (A) 36.

105. The number of cars that reach a city doubles every hour. If there were 30 cars present initially, the number of cars at the end of 7th hour is

(A) 3480

(B) 3200

(C) 3840

(D) 3600

Answer: (C) 3840.

106. An electric train 270 meter long is running at a speed 60 Km per hour. The time taken by the train to cross a platform of 230 meters in seconds is

(A) 40

(B) 50

(C) 60

(D) 30

Answer: (D) 30.

107. A car is running at a speed of 108 Kmph. What distance will it cover in 15 seconds?

(A) 45 m

(B) 55 m

(C) 450 m

(D) none of these

Answer: (C) 450 m.

108. A man performs $\frac{3}{5}$ of the total journey by rail, $\frac{7}{20}$ by bus and the remaining 6.5 km on foot. His total journey distance is

- (A) 65 Km
- (B) 100 Km
- (C) 120 Km
- (D) 130 Km

Answer: (D) 130 Km.

109. An electric train is moving at a speed of 68 Km per hour. What is the distance covered by it in meters in 180 seconds?

- (A) 4700
- (B) 5100
- (C) 5000
- (D) 6000

Answer: (B) 5100.

110. If + means \times , - means +, \times means \div , \div means -, then the value of $84 \times 28 + 8 \div 10 - 9 = ?$

- (A) 23
- (B) 22
- (C) 30
- (D) 26

Answer: (A) 23.

111. In a set of first x natural numbers there 30 prime number. Find the number of composite numbers in the above set.

- (A) $X - 30$
- (B) $30 - x$
- (C) $x - 29$
- (D) $x - 31$

Answer: (D) $x - 31$.

112. If the sum of two numbers is 1020 and their difference is 140 then the numbers are

- (A) 680, 440
- (B) 540, 580
- (C) 580, 440

(D) 520, 500

Answer: (C) 580, 440.

113. The sum of three prime number is 101. The difference of two of them is 24. What are the numbers?

(A) 5, 59, 37

(B) 41, 53, 7

(C) 11, 37, 53

(D) 3, 61, 37

Answer: (D) 3, 61, 37.

114. When a number is divided by 13, the remainder is 11. When the same number is divided by 17, the remainder is 9. Then the number is

(A) 339

(B) 369

(C) 349

(D) 359

Answer: (C) 349.

115. How many digits are required for numbering the pages of a book having 300 pages.

(A) 299

(B) 492

(C) 789

(D) 792

Answer: (D) 792.

116. If 1 is added to the denominator of a fraction, the fraction becomes $\frac{1}{2}$ and if 1 is added to the numerator the fraction becomes 1. The fraction is

(A) $\frac{4}{7}$

(B) $\frac{5}{9}$

(C) $\frac{2}{3}$

(D) $\frac{10}{11}$

Answer: (C) $\frac{2}{3}$.

117. A student looks only the total marks of a 10thstd state board public exam result. What are the marks required to guess a sure pass and a sure fail?

(A) ≥ 175 and <175

(B) ≥ 435 and <175

(C) ≥ 200 and <175

(D) none of these

Answer: (B) ≥ 435 and <175 .

118. The sum of the digits of two digit number is 11. When the digits are reversed the value of the reversed number is 9 less than the original number. Find the original number.

(A) 56

(B) 65

(C) 99

(D) 70

Answer: (B) 65.

119. When any number is divided by 12, then dividend becomes $\frac{1}{4}^{\text{th}}$ of the other number. By how much percent first number is greater than the second number?

(A) 50%

(B) 75%

(C) 100%

(D) 200%

Answer: (D) 200%

120. From the following number sequences 5 3 4 6 7 9 2 4 1 6 8 6 5 9 4 8 3 5 6 2 1 9 2 how many odd number are there in the series that are preceded by an odd number and followed by an even number?

(A) 2

(B) 3

(C) 4

(D) 5

Answer: (D) 5.

121. If the sum and product of two numbers are 60 and 864 respectively the numbers are

(A) 24, 36

(B) 20, 40

(C) 26, 34

(D) 10, 50

Answer: (A) 24, 36.

122. The given number 871378519 is divisible by

(A) 9

(B) 11

(C) 7

(D) 13

Answer: (B) 11.

123. The sum of three digit natural numbers which are divisible by 8.

(A) 61370

(B) 61376

(C) 61763

(D) 61673

Answer: (B) 61376.

124. Which of the following pairs is relatively prime number?

(A) (12, 15)

(B) (101, 201)

(C) (3, 9)

(D) (17, 51)

Answer: (B) (101, 201).

125. A shopkeeper uses a code OLISPAH = Rs. 28, where O = Rs. 1, L = Rs. 2, I = Rs. 3 and so on. What price does SOAP denote?

(A) Rs. 120

(B) Rs. 18

(C) Rs. 16

(D) Rs. 61

Answer: (C) Rs. 16.

126. What year does it represent MDCLXVI?

(A) 1966

(B) 1866

(C) 1766

(D) 1666

Answer: (D) 1666.

127. If $C = 3$, $CEP = 24$, what will be the value of HUX?

(A) 47

(B) 49

(C) 51

(D) 53

Answer: (D) 53.

128. $CD : GH :: LM : ?$

(A) DC

(B) HG

(C) ML

(D) AB

Answer: (D) AB.

129. If DMDQFX denotes the word ENERGY, then the word POWER is denoted by

(A) ONVER

(B) OMUFQ

(C) ONUDQ

(D) ONVDQ

Answer: (D) ONVDQ.