

51. 3, 15, 35, ?, 99, 143  
(a) 63 (b) 69 (c) 81 (d) 85

**Answer : A**

52. 2, 3, 5, ?, 11, 13  
(a) 12 (b) 6 (c) 8 (d) 7

**Answer : C**

53. The middle term of an arithmetic series 3, 7, 11, ....., 147 is  
(a) 71 (b) 75 (c) 79 (d) 83

**Answer : B**

54. If  $\sin^4 x + \cos^4 x = 1$ , then what will be the value of x ?  
(a) Zero (b) Zero or any multiple of  $\pi/2$   
(c) Any multiple of  $\pi$  (d) Zero or any multiple of  $\pi/4$

**Answer : B**

55. The maximum value of  $\sin x + \cos x$  is  
(a) 1 (b)  $\sqrt{2}$  (c) 0 (d) 2

**Answer : B**

56. If A, B and C are angles of a triangle and  $\tan A=1$ ,  $\tan B = 2$ , then  $\tan C$  is equal to  
(a) 1 (b) 3 (c) -3 (d) -1

**Answer : B**

57. In an examination, a student was asked to find  $\frac{3}{14}$  of a certain number. By mistake he, found  $\frac{3}{4}$  of that number. His answer was 150 more than the correct number. The number is  
(a) 180 (b) 240 (c) 280 (d) 290

**Answer : C**

58. If the volume of a sphere is divided by its surface area, the result is 27 cm. The radius of the sphere in cm is ....  
(a) 9 (b) 27 (c) 81 (d) 243

**Answer : C**

59. A copper sphere of radius 3 cm is beaten and drawn into a wire of diameter 0.2 cm. The length of the wire in meters is ....  
(a) 18 (b) 24 (c) 36 (d) 48

**Answer : C**

60. By selling 12 articles for a rupee, a man loses 20%. How many he should sell for a rupee to get a gain of 20%.  
(a) 5 (b) 8 (c) 10 (d) 15

**Answer : B**

61. Fill in the missing letter in the following letter series; S, V, Y, B  
(a) C (b) D (c) E (d) F

**Answer : C**

62. The percentage profit earned on an article by selling it at Rs. 960 was 20, what was the cost price of the article?  
(a) Rs. 600 (b) Rs. 900 (c) Rs. 840 (d) Rs. 800

**Answer : D**

63. What Should come in place of question marks (?)  
 $6\frac{2}{5} + 80\%$  of  $35 + 26\frac{1}{3} = ?$   
(a)  $60\frac{4}{5}$  (b)  $59\frac{11}{15}$  (c)  $60\frac{14}{15}$  (d)  $60\frac{11}{15}$

**Answer : D**

64. A man walking at the speed of 4 km per hour crossed a square field diagonally in 3 minutes. The area of the field in square metres is  
(a) 20 000 (b) 25 000 (c) 15 000 (d) 40 000

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(a) 20,000 (b) 25,000 (c) 10,000 (d) 70,000

**Answer : A**

65. Radius of a wheel is 0.25 m. How many rounds will it take to complete the distance of 11 km.  
 (a) 2800 (b) 7000 (c) 4000 (d) 5500

**Answer : B**

66. Which of the following fractions is smallest?  
 (a)  $\frac{11}{13}$  (b)  $\frac{9}{11}$  (c)  $\frac{3}{4}$  (d)  $\frac{5}{7}$

**Answer : D**

67. The volume of a sphere is  $4851 \text{ cm}^3$ . Its surface area is  
 (a)  $1286 \text{ cm}^2$  (b)  $1386 \text{ cm}^2$  (c)  $1486 \text{ cm}^2$  (d) None of these

**Answer : B**

68. Sarla secured 24 marks more in Geography than in English. The difference between the marks obtained by her in English and Science is 16. What are her marks in Science?  
 (a) 36 (b) 40 (c) 60 (d) Data inadequate

**Answer : D**

69. What Should come in place of question marks (?)  
 $7942 - 3587 = 6.5 \diamond ?$   
 (a) 640 (b) 760 (c) 670 (d) 680

**Answer : C**

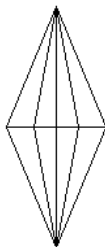
70. The difference between two numbers is 8 and their ratio is 1:5. Which of the following is the smaller number?  
 (a) 24 (b) 8 (c) 16 (d) 2

**Answer : D**

71. If you are ninth person from both the ends in a row, then how many persons are there in the row?  
 (a) 10 (b) 15 (c) 17 (d) 19

**Answer : C**

72. How many triangles are there in the following figure?



(a) 22 (b) 20 (c) 26 (d) 24

**Answer : D**

73. How many square metres of cloth will be required for a 4 m high pyramidal tent to be raised on a square shaped area with one side equal to 6 m?  
 (a)  $30 \text{ m}^2$  (b)  $60 \text{ m}^2$  (c)  $120 \text{ m}^2$  (d)  $200 \text{ m}^2$

**Answer : B**

74. In the following number series, a wrong number is given. Find out that number.  
 3, 10, 24, 54, 108, 220, 444  
 (a) 10 (b) 24 (c) 54 (d) 108

**Answer : C**

75. What Should come in place of question marks (?)  
 $735.8 - 419.25 - 37.318 = ?$   
 (a) 278.512 (b) 269.232 (c) 278.665 (d) 279.232

**Answer : D**

76. A sum of money is to be divided among A, B and C in the ratio of 3:7:6. If

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the difference in the shares of A and B is Rs 2,700, what is the share of C?  
 (a) Rs 4050 (b) Rs 4000 (c) Rs 4100 (d) Rs 4500

**Answer : A**

77. If  $f(x) = x+5$  and  $g(x) = 2x+4$ , then  $f[g(x)] - g[f(x)]$  for any value of 'x' will be  
 (a)  $x-3$  (b)  $x-7$  (c)  $-5$  (d) None of these

**Answer : C**

78. When a number is divided by 7, the remainder 4. When the same number is divided by 6, the remainder is 3. What is the number?  
 (a) 39 (b) 37 (c) 48 (d) 56

**Answer : A**

79. What Should come in place of question marks (?)  
 $7386 + ? = 6894 + 4357$   
 (a) 3955 (b) 3865 (c) 4045 (d) 3415

**Answer : B**

80. If  $86 \$ - 4936 = 3709$ , what will come in place of \$?  
 (a) 6 (b) 8 (c) 7 (d) 4

**Answer : D**

81. At present, Madhu is 15 years older than Kamal. After 5 years Kamal will be 10 years old. What is Madhu's present age?  
 (a) 25 years (b) 10 years (c) 20 years (d) Data inadequate

**Answer : C**

82. What Should come in place of question marks (?)  
 $9000 \diamond 18 \diamond 324 - 2100 = ?$   
 (a) 169900 (b) 160000 (c) 159800 (d) 159900

**Answer : D**

83. What Should come in place of question marks (?)  
 $769.8 \diamond 7.5 + 9.6 \diamond 1.2 = ?$   
 (a) 4819.25 (b) 5781.50 (c) 10969.65 (d) 5780.50

**Answer : B**

84. What Should come in place of question marks (?)  
 $3975 + 8697 + 4138 = ?$   
 (a) 16630 (b) 17080 (c) 16810 (d) 16990

**Answer : C**

85. In the following number series, a wrong number is given. find out that number.  
 636, 316, 154, 76, 36, 16, 6  
 (a) 316 (b) 154 (c) 76 (d) 36

**Answer : B**

86. The average marks of a student for 8 subjects are 87. Of these eight subjects, his highest marks are in Maths which are 2 more than the next highest obtained by him in Chemistry. If the marks for these two subjects are eliminated, his average marks for the remaining 6 subjects will be 85. Find out the marks obtained by him in Maths.  
 (a) 84 (b) 91 (c) 94 (d) 96

**Answer : C**

87. 'A' can run a kilometer in 4 minutes 54 seconds, and 'B' can run this distance in 5 minutes. How many meters ahead of 'A' should 'B' stand at the start of the 1 km race so that both of them reach the finish point together.  
 (a) 20m (b) 16m (c) 18m (d) 14.5m

**Answer : A**

88. The difference between two consecutive even numbers is 2. What is the first of these two numbers?  
 (a) 20 (b) 22 (c) 24 (d) Cannot be said.

**Answer : D**

89. What Should come in place of question marks (?)  
 $36800 \diamond 230 + 230 = ?$

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(a) 80 (b) 400 (c) 390 (d) 380

**Answer : C**

90. If  $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ ; and  $\frac{x^2}{b^2} + \frac{y^2}{a^2} = 1$ , then the value of 'x' will be

(a)  $\frac{ab}{\sqrt{b^2 + a^2}}$  (b)  $\frac{2ab}{\sqrt{b^2 - a^2}}$  (c)  $\frac{\sqrt{b^2 - a^2}}{2ab}$  (d)  $\frac{\sqrt{b^2 + a^2}}{ab}$

**Answer : A**

91. A 180-meters long train crosses a man standing on the platform in 6 seconds. What is the speed of the train?  
(a) 90 Kmph (b) 108 Kmph (c) 120 Kmph (d) 88 Kmph

**Answer : B**

92. What Should come in place of question marks (?)  
 $738.6 \times 5.4 + 7.8 \times 2.6 = ?$   
(a) 3252.84 (b) 1537.01 (c) 3990.44 (d) 3991.44

**Answer : D**

93. A mixture of water and milk is 40 litres. There is 10 percent water in it. How much water should now be added in this mixture so that new mixture contains 20% water.  
(a) 4 litres (b) 5 litres (c) 6.5 litres (d) 7.5 litres

**Answer : B**

94. What Should come in place of question marks (?)  
 $? + \frac{3}{8} \text{ of } 1696 = \frac{1}{3} \times 1932$   
(a) 36 (b) 100 (c) 144 (d) 8

**Answer : D**

95. In a circle, two chords of length 6cm and 12cm are situated on one side of the centre and are parallel to each other. If they are 3cm apart, the radius of the circle will be  
(a)  $3\sqrt{11}$  cm (b)  $2\sqrt{11}$  cm (c)  $3\sqrt{5}$  cm (d)  $11\sqrt{3}$  cm

**Answer : C**

96. Shashank had Rs.460 with him. He gave a portion of it to Ulka who in turn gave half of what she received to Sudha. If Sudha got Rs. 200, how much money did Shashank have after giving to Ulka?  
(a) Rs. 100 (b) Rs. 60 (c) Rs. 120 (d) Rs. 80

**Answer : B**

97.  $7385 - ? = 8127 - 5936$   
(a) 5104 (b) 5194 (c) 4654 (d) 5094

**Answer : B**

98. What Should come in place of question marks (?)  
 $65\% \text{ of } 25.6 + ? = 15\% \text{ of } 140$   
(a) 3.36 (b) 4.26 (c) 2.36 (d) 4.36

**Answer : D**

99. The average age of Nutan, Prakash, Gouri and Ramesh is 21 years. The average age of Gouri and Ramesh is 18 years. What is the average age of Nutan and Prakash?  
(a) 24 years (b) 26 years (c) 20 years (d) 22 years

**Answer : A**

100. What Should come in place of question marks (?)  
 $9.34 \times 5.86 + 5.0003 = ?$   
(a) 59.7327 (b) 59.1467 (c) 59.7354 (d) 58.7987

**Answer : A**