**Question 51.A and B undertake a piece of work for Rs. 250 . A alone can do that work in 5 days and B alone can do that work in 15 days . With the help of C, they finish the work in 3 days . If everyone gets paid in proportion to work done by them, the amount C will get is**

**Options:**

**1**) Rs.50

**2**) Rs.100

**3**) Rs.150

**4**) Rs.200

**Correct Answer:** Rs.50

**Question 52.Dealer purchased an article for Rs. 900 and fixes the list price in such a way that he gains 20% after allowing 10% discount, then the list price is**

**Options:**

**1**) Rs.1180

**2**) Rs.1080

**3**) Rs.1200

**4**) Rs.1100

**Correct Answer:** Rs.1200

**Question 53.Cost price of 28 articles is equal to Sale price of 21 articles, then percentage of profit is**

**Options:**

**1**) 12%

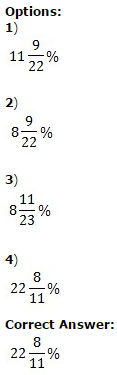
**2**) 33⅓ %

**3**) 20%

**4**) 22%

**Correct Answer:** 33⅓ %

**Question 54.In the last financial year, a car company sold 41,800 cars . In this year, the target is to sell 51,300 cars . By what percent must the sale be increased ?**

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**Question 55.If the speed of a boat in still water is 20 km/hr and the speed of the current is 5 km/hr, then the time taken by the boat to travel 100 km with the current is**

**Options:**

**1**) 2 hrs

**2**) 3 hrs

**3**) 4 hrs

**4**) 7 hrs

**Correct Answer:** 4 hrs

**Question 56.If a sum of money doubles itself in 8 yrs, then the interest rate in percentage is ?**

**Options:**

**1**) 8 ½%

**2**) 10%

**3**) 10 ½ %

**4**) 12 ½ %

**Correct Answer:** 12 ½ %

**Question 57.If ( x - 5)2 + (y - 2)2 + (z - 9)2 = 0 , then value of (x + y - z) is**

**Options:**

**1**) 16

**2**) -1

**3**) -2

**4**) 12

**Correct Answer:** -2

**Question 58.**

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**Options:**

**1**) 2201

**2**) 2203

**3**) 2207

**4**) 2213

**Correct Answer:** 2207

**Question 59.Points P , Q and R are on a circle such that ∠PQR = 40° and ∠QRP = 60° . Then the subtended angle by arc QR at the centre is**

**Options:**

**1**) 80°

**2**) 120°

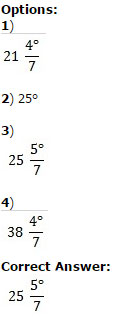
**3**) 140°

**4**) 160°

**Correct Answer:** 160°

**Question 60.**

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**Question 61.If α + β = 90° and α:β = 2:1, then the ratio of cosα to cosβ is**

**Options:**

**1**) 1:√3

**2**) 1:3

**3**) 1:√2

**4**) 1:2

**Correct Answer:** 1:√3

**Question 62.The least number to be added to 13851 to get a number which is divisible by 87 is**

**Options:**

**1**) 18

**2**) 43

**3**) 54

**4**) 69

**Correct Answer:** 69

**Question 63.Two numbers are in the ratio 3:5. If 6 is added to both of them, the ratio becomes 2:3. The numbers are**

**Options:**

**1**) 21 and 35

**2**) 30 and 50

**3**) 24 and 40

**4**) 18 and 30

**Correct Answer:** 18 and 30

**Question 64.The average weight of 10 parcels is 1.7 kg. Addition of another new parcel reduces the average weight by 60 gram. What is the weight , in kg, of the new parcel?**

**Options:**

**1**) 1.04

**2**) 1.08

**3**) 1.4

**4**) 1.8

**Correct Answer:** 1.04

**Question 65.**

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**Options:**

**1**) 1000

**2**) 9000

**3**) 1

**4**) 9

**Correct Answer:** 9

**Question 66.**

****

**Options:**

**1**) 1

**2**) 2

**3**) 3

**4**) 4

**Correct Answer:** 4

**Question 67.In an isosceles triangle ΔABC, AB = AC and ∠A = 80°. The bisector of ∠B and ∠C meet at D. The ∠BDC is equal to**

**Options:**

**1**) 90 o

**2**) 100 o

**3**) 130 o

**4**) 80 o

**Correct Answer:** 130 o

**Question 68.The length of a chord which is at a distance of 12 cm from the centre of a circle of radius 13 cm i**

**Options:**

**1**) 10 cm

**2**) 5 cm

**3**) 6 cm

**4**) 12 cm

**Correct Answer:** 10 cm

**Question 69.If Ɵ is positive acute angle and 7cos2Ɵ + 3 sin2Ɵ = 4, then the value of θ is**

**Options:**

**1**) 60 o

**2**) 30 o

**3**) 45 o

**4**) 90 o

**Correct Answer:** 60 o

**Question 70.Radius of cross section of a solid right circular cylindrical rod is 3.2 dm. The rod is melted and 44 equal solid cubes of side 8 cm are formed. The length of the rod is (Take Π = 22/7)**

**Options:**

**1**) 56 cm

**2**) 7 cm

**3**) 5.6 cm

**4**) 0.7 cm

**Correct Answer:** 7 cm

**Question 71.The angles of elevation of the top of a tower from two points at a distance of 4 m and 9 m from the base of the tower and in the same straight line with it are complementary. The height of the tower is**

**Options:**

**1**) 4 m

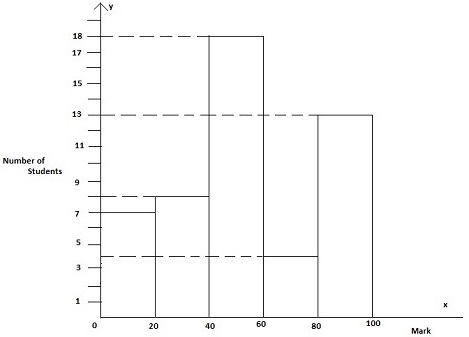
**2**) 7 m

**3**) 9 m

**4**) 6 m

**Correct Answer:** 6 m

**Question 72.Study the histogram of marks (in Mathematics) distribution of 50 students of class IX and answer the following questions.**

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**The number of students who have secured marks less than 60 is**

**Options:**

**1**) 12

**2**) 15

**3**) 33

**4**) 7

**Correct Answer:** 33

**Question 73.Study the histogram of marks (in Mathematics) distribution of 50 students of class IX and answer the following questions.**

**The average marks of the students are**

**Options:**

**1**) 53.2

**2**) 45.5

**3**) 60.2

**4**) 55.5

**Correct Answer:** 53.2

**Question 74.Study the histogram of marks (in Mathematics) distribution of 50 students of class IX and answer the following questions.**

**The number of students who have scored between 39 and 80 is**

**Options:**

**1**) 22

**2**) 18

**3**) 37

**4**) 15

**Correct Answer:** 22

**Question 75.Study the histogram of marks (in Mathematics) distribution of 50 students of class IX and answer the following questions.**

**Percentage of students who have secured marks more than 59 is**

**Options:**

**1**) 13

**2**) 17

**3**) 34

**4**) 26

**Correct Answer:** 34