



1. Kishore can do a piece of work in 9 days and Chaitanya can do the same work in 18 days. They started the work. After 3 days Eswar joined them, who can complete alone the same whole work in 3 days. What is the total number of days in which they had completed the work?

- A. 4 days
- B. 6 days
- C. 8 days
- D. 12 days

Answer – A. 4 days

Explanation:

Efficiency of Kishore and Chaitanya = $11.11 + 5.55 = 16.66\%$

Work done in 3 days = $3 \times 16.66 = 50\%$

Rest work was done by Kishore, Chaitanya & Eswar = $50/50 = 1$ day

Therefore, Work can be completed in 4 days.

2. The average mark of the students of a class in a particular exam is 80. If 5 students whose average mark in that exam is 40 are excluded, the average mark of the remaining will be 90. Find the number of students who wrote the exam.

- A. 15
- B. 20
- C. 25
- D. 30

Answer - C. 25

Explanation:

Let the number of students who wrote the exam to be x .

Total marks of students = $80x$.

Total marks of $(x - 5)$ students = $90(x - 5)$

$80x - (5 * 40) = 90(x - 5)$

$250 = 10x \Rightarrow x = 25$

Therefore, Number of students who wrote an exam is 25.

3. Two pipes P and Q can fill a tank in 20 and 30 minutes respectively. If both the pipes are used together, then how long will it take to fill the tank?

- A. 12 min
- B. 15 min
- C. 25 min



D. 50 min

Answer - A. 12 min

Explanation:

According to the given information

Part filled by P, in 1 min. = $1/20$

Part filled by Q in 1 min. = $1/30$

Then, Part filled by (P + Q) in 1 min. = $1/20 + 1/30 = 1/12$.

Hence, Both the pipes can fill the tank in 12 minutes.

4. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill a tank in 36 min, then the slower pipe alone will be able to fill the tank in?

A. 81 min

B. 108 min

C. 144 min

D. 192 min

Answer - C. 144 min

Explanation:

Let us assume the slower pipe alone fill the tank in x min.

Then, a faster pipe will fill it in $x/3$ min.

So, $1/x + 3/x = 1/36$

$4/x = 1/36 \Rightarrow x = 144$ min.

5. In an office, there are 40% of female employees. 50% of male employees are UG graduates. The total 52% of employees are UG graduates out of 1800 employees. What is the number of female employees who are UG graduates?

A. 362

B. 396

C. 412

D. 428

Answer - B. 396

Explanation:

Given that

Total employees = 1800

female employees = 40%

male employees = 60%

50% of male employees = UG graduates = 30%

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Female employees who are UG graduates = 22%
22% of 1800 = 396

6. In an examination Srikanth scored 56% marks, Manas scored 90% marks and Eswar scored 650 marks that are 65% then find the total marks of three students?

- A. 1250
- B. 2010
- C. 2110
- D. 2450

Answer - C. 2110

Explanation:

65% = 650

100% = $100 \times 650 / 65 = 1000$

56% = 560

90% = 900

Total = $650 + 560 + 900 = 2110$

Therefore, Total marks scored by three students is 2110.

7. X and Y invested rupees 4000 and 5000 respectively in a business. X being an active partner will get rupee 50 every month extra for running the business. In a year if X receive a total of 800 rupees, then what will Y get from the business?

- A. Rs. 200
- B. Rs. 250
- C. Rs. 300
- D. Rs. 400

Answer – B. Rs. 250

Explanation:

The ratio in which the profit will divide – 4: 5.

X will get $50 \times 12 = 600$ rupees extra

So, from business X got 200 rupees.

that is $(4/9) \times \text{Profit} = 200$, Profit = 450.

Hence, B will get $450 - 200 = 250$ rupees

8. A sum of money is divided among P, Q, R and S in the ratio 5:4:7:9 respectively. If the share of P is Rs.2300 more than that of Q, then what is the total amount of R and S together?



- A. Rs.35000
- B. Rs.36000
- C. Rs.36800
- D. Rs.37200

Answer - C. Rs.36800

Explanation:

$$5x - 4x = 2300$$

$$x = 2300$$

$$R = 7 * 2300 = 16100$$

$$S = 9 * 2300 = 20700$$

$$R + S = 36800$$

Therefore, Total amount of R and S together is Rs. 36800.

9. A circular wire of radius 49 cm is cut and bent in the form of a rectangle whose sides are in the ratio of 4:7. The smaller side of the rectangle is?

- A. 35 cm
- B. 42 cm
- C. 45 cm
- D. 56 cm

Answer – D. 56 cm

Explanation:

$$\text{Circumference} = 2 * (22/7) * 49 = 308 \text{ cm}$$

length of rectangle sides is $4x, 7x$.

$$\text{Circumference} = 2 * (4x + 7x)$$

$$308 = 22x$$

$$x = 308 / 22 = 14$$

Hence, the smaller side of rectangle = $4x = 4 * 14 = 56 \text{ cm}$

10. The perimeter of a square is twice the perimeter of a rectangle. If the perimeter of a square is 48 cms and the length of the rectangle is 7 cm. Find the breadth of the rectangle?

- A. 4 cm
- B. 5 cm
- C. 6 cm
- D. 7 cm

Answer - B. 5 cm

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Explanation:

$$P \text{ of Square} = 4a = 48$$

$$a = 48/4 = 12 \text{ cm}$$

$$P \text{ of rectangle} = 48/2 = 24 \text{ cm} = 2(l+b)$$

$$2(7+b) = 24$$

$$b = 12 - 7 = 5$$

Hence, the breadth of the rectangle is 5 cm.