

- 1. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:
- A. 15
- B. 16
- C. 18
- D. 25

Answer - B. 16

Explanation:

Let Cost Price of each article be Rs.1

Given, C.P. of x articles = Rs. x.

S.P. of x articles = Rs. 20.

Profit = Rs. (20 - x).

((20 - x)/x) * 100 = 25

2000 - 100x = 25x

125x = 2000

Therefore, x = 16.

- 2. An article is sold at 25% profit. If the CP and the SP of the article are increased by Rs 60 and Rs 30 respectively, the profit% decreases by 15%. Find the cost price of the article.
- A. Rs 190
- B. Rs 240
- C. Rs 285
- D. Rs 305

Answer - B. Rs 240

Explanation:

CP = x

Then, SP = (125/100)*x = 5x/4

New CP = (x+60)

New SP = (5x/4 + 30)

New profit% = 25-15 = 10

So (5x/4 + 30) = (110/100) * (x+60)

Hence, x = 240

3. 5 kg of an article is bought at Rs 480, 1/3rd of it is sold at a profit of 20%. At what loss% should the remaining article be sold so that there is an overall profit of 3 1/3%?



Λ	50/ ₂

B. 6.5%

C. 7%

D. 8.5%

Answer - A. 5%

Explanation:

Let the remaining 2/3rd be sold at x% loss 1/3(20) + 2/3(-x) = 3 1/3 [x% loss, so used - sign] <math>1/3(20) + 2/3(-x) = 10/3 Solve, x = 5%

- 4. In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit?
- A. 30%
- B. 70%
- C. 100%
- D. 250%

Answer - B. 70%

Explanation:

Let Cost Price= Rs. 100. Then, Profit = Rs. 320

Selling Price = Rs. 420.

C.P. = 125% of Rs. 100 = Rs. 125

New S.P. = Rs. 420.

Profit = Rs. (420 - 125) = Rs. 295.

Therefore, Required percentage = 295/420 * 100% = 1475/21% = 70% (Approximate Percentage)

- 5. A and B invested rupees 4000 and 5000 respectively in a business. A being an active partner will get rupee 50 every month extra for running the business. In a year if A receive a total of 800 rupees, then what will B get from the business.
- A. 200
- B. 250
- C. 300
- D. 400

Answer - B. 250

Explanation:



The ratio in which the profit will divide -4:5. A will get 50*12 = 600 rupees extra So, from business A got 200 rupees. Then, (4/9)*P = 200, P = 450. So B will get 450 - 200 = 250 rupees

- 6. In a famous hotel, the rooms were numbered from 201 to 230, each room gives an earning of Rs. 5000 for the first fifteen days of a month and for the latter half, Rs. 3000 per room. Find the average income per room per day over the month?
- A. 2000
- B. 3000
- C. 4000
- D. 5000

Answer - C. 4000

Explanation:

Total number of rooms = 29

Average = [(5000 * 30 * 15) + (3000 * 30 * 15)]/(30*30)

Average earning per room = 4000

- 7. A and B undertake to do a piece of work for Rs. 450. A can do it in 20 days and B can do it in 40 days. With the help of C, they finish it in 8 days. How much should C be paid for his contribution?
- A. Rs.50
- B. Rs.60
- C. Rs.90
- D. Rs.180

Answer - D. Rs.180

Explanation:

A & B would have done 8/20 & 8/40 of the work respectively in 8 days.

Together they have done 3/5th of the work.

This implies that C has done 2/5th of the work.

Thus, C should be paid 2/5th of the amount, that is $450 \times 2/5 = Rs$. 180.

- 8. P and Q can do a piece of work in 40 days, Q and R can do it in 120 days. If Q alone can do it in 180 days, in how many days will P and R do it together?
- A. 20 days
- B. 25 days



C. 30 days

D. 45 days

Answer - D. 45 days

Explanation:

P + Q take 40 days.

Q alone takes 180 days.

P will take $1/40 - 1/180 = 7/360 \Rightarrow 360/7$ days.

Q + R take 120 days.

Hence, R alone will take 1/120 - 1/180 = 1/360

It seems for 360 days.

Therefore, P & R together will take $7/360 + 1/360 = 8/360 \Rightarrow 360/8 = 45$

Therefore, it takes 45 days to complete the work.

- 9. 2 men and 3 women can together complete a piece of work in 4 days and 3 men and 2 women together can complete work in 3 days. In how many days 10 women will complete this work?
- A. 6 days
- B. 7 days
- C. 9 days
- D. 12 days

Answer - A. 6 days

Explanation:

Given that

2m + 3w = 4

3m + 2w = 3

So 4(2m + 3w) = 3(3m + 2w)

8m + 12w = 9m + 6w

6w = 1m

Given 2m + 3w = 4, so 2*(6w) + 3w = 4

Therefore, 15 women in 4 days

Hence, 10 women in (15*4)/10 = 6 days

- 10. 20 men can complete a piece of work in 14 days. 7 men started the work and after 20 days, 7 more men joined the work. In how many days the remaining work will be completed?
- A. 5 days
- B. 10 days
- C. 15 days



D. 20 days

Answer - B. 10 days Explanation: Let (7+7) complete remaining work in x days. So 20*14 = 7*20 + 14*xx = 10 days

- 11. A truck driving on a highway passed a man walking at the rate of 15km/hr in the same direction. He could see the truck for 2 minutes and up to 500 meters. Find the speed of the truck?
- A. 27 km/hr
- B. 30 km/hr
- C. 32 km/hr
- D. 42 km/hr

Answer – B. 30 km/hr **Explanation:** x-15=(500/120) *18/5 x=30

- 12. Varun traveled a distance of 50 km in 7 hrs. He traveled the distance partly on foot at 5 kmph and partly on a bicycle at 8 kmph. What is the distance that he traveled on foot?
- A. 2 km
- B. 5 km
- C. 10 km
- D. 18 km

Answer - C.10 km

Explanation:

x/5 + 50-x/8 = 7 8x+250-5x = 7*40 3x+250 = 2803x = 30

X = 30/3 = 10 km

13. The side of a square-shaped garden is $8\sqrt{2}$. Find the maximum possible distance between any two corners



- A. 15 meters
- B. 16 meters
- C. 17 meters
- D. 18 meters

Answer – B. 16 meters

Explanation:

According to the given data

- $d = a\sqrt{2}$
- $a = 8\sqrt{2}$
- d = 16 m

14. If the side of the square is increased by 30%, then how much % does its area get increased?

- A. 49%
- B. 59%
- C. 69%
- D. 79%

Answer - C. 69%

Explanation:

Area of the plot = 1.3 * 1.3 = 1.69 = 69%

15. The length of a rectangle is reduced by 30%. By what percent would the width have to be increased to maintain the original area?

- A. 25%
- B. 32.76%
- C. 35.50%
- D. 42.86%

Answer – D. 42.86%

Explanation:

Width = 30*100/100-30

= 3000/70 = 42.86%