



Percentage Questions for RRB Group D Set-2 PDF

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Instructions

For the following questions answer them individually

Question 1

A seller sold $\frac{3}{4}$ th of his goods at 24% profit. He sold rest part of the goods at cost price. What is percentage of his profit ?

- A 15
- B 18
- C 24
- D 32

Answer: B

Explanation:

Let there be 100 items worth 100 rupees total. So, the seller sells 75 at $75 \times \frac{124}{100} = 93$ rupees.
and 25 at 25 rupees.

Total profit = $93 + 25 - 100 = 18$ rupees

Profit % = $18/100 = 18\%$

Question 2

There are 40% women workers in an office. 40% women and 60% men of that office voted for in my favour. What is the percentage of total votes in my favour ?

- A 24
- B 42
- C 50
- D 52

Answer: D

Explanation:

There are 40 women and 60 men in the group. 40 % of the women and 60% of the men = $40 \times 40\% + 60 \times 60\% = 52$

Question 3

The cost price of 18 articles is equal to the selling price of 15 articles. The gain percent is--

- A 15%
- B 20%
- C 25%
- D 18%

Answer: B

Explanation:

Let the price be 180 Rs. 18 items were purchased at 180 rupees and 15 items were sold at 180 rupees.

So, cost price is 10 rupees and selling price is 12 rupees.

So, profit percent = 20%

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Question 4

0.28 part of a window is painted black, 0.33 part is painted red. What is the percentage of the part of the window to be painted ?

- A 0.61
- B 0.39
- C 30.5%
- D 39%

Answer: D

Explanation:

percent of window remaining to be painted = $100\% - (\text{percent already painted}) = (100 - 61)\% = 39\%$

Question 5

Cost of an article was Rs. 1,200. If it is sold for Rs. 1,000. Calculate the percentage of loss incurred.

- A $16\frac{2}{3}\%$
- B $12\frac{3}{4}$
- C 14%
- D 15%

Answer: A

Explanation:

Percentage of loss = $(\text{CP} - \text{SP}) / \text{CP} = 200 / 1200 = 16.67\%$

Question 6

Ramana's salary is decreased by 10%. By what percent his decreased salary be raised to have the original salary?

- A 10%
- B 11%
- C $11\frac{1}{9}\%$
- D 12%

Answer: C

Explanation:

Let his original salary be 100 Rs.

Decreased salary = $100 - 10\% = 90$ Rs.

Amount to be increased = 10 RS

Percentage = $10 * 100 / 90 = 11\frac{1}{9}$

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Question 7

If the cost price of 12 oranges is equal to selling price of 10 oranges, then the percentage of profit is

- A $16\frac{2}{3}\%$
- B 18%
- C 20%
- D 25%

Answer: C

Explanation:

Let the cost of each orange be y .

Cost of 10 apples = $10y$

Selling price of 10 apples = Cost of 12 apples = $12y$

The profit for selling 10 apples = $12y - 10y = 2y$

Thus profit% = $(2y \times 100) / 10y = 20\%$

Question 8

If the cost price of 120 articles is equal to the selling price of 80 articles, find the profit percent.

- A 33.33%
- B 40%
- C 50%
- D 60%

Answer: C

Explanation:

Let say, cost price of one article is c and selling price of one article is s .

So, cost price of 120 article is $120c$.

And selling price of 80 articles is $80s$.

So, $120c = 80s$.

or, $(s/c) = 120/80 = 1.5$.

or, $(s - c)/c = 1.5 - 1 = 0.5$.

So, Profit percentage is 50%.

C is correct choice.

Question 9

K purchased a table for Rs. 11,000 and sold it for Rs. 13,500. What is his gain in percentage?

- A 19.8%
- B 20.6%
- C 22.7%
- D 22%

Answer: C

Explanation:

$$C.P = 11000, S.P = 13500$$

$$\text{Gain} = 13500 - 11000 = 2500$$

$$\text{Gain}\% = \frac{2500 \times 100}{11000} = 22.7\%$$

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Question 10

What percent of 1 hour is 1 minute and 12 seconds?

- A 2%
- B 12%
- C 11%
- D 1.2%

Answer: A

Explanation:

$$1 \text{ min } 12 \text{ sec} = 72 \text{ sec}$$

$$1 \text{ hour} = 3600 \text{ sec}$$

$$\text{Required percentage} = \frac{72}{3600} \times 100 = 2\%$$

Question 11

Sham's marks are 25% more than that of Divya's. What percent is Divya's marks less than that of Sham's?

- A 10%
- B 40%
- C 20%
- D 15%

Answer: C

Explanation:

$$25\% = \frac{1}{4}, \text{ if divya marks} = 4 \text{ then sham marks} = 5$$

$$\text{divya marks less than by sham in \%} = \frac{5-4}{5} \times 100 = 20\%$$

Hence option 'C' is correct.

Question 12

A boy has 120 balls of which some are white and the remaining are black. If the percentage of white balls is 45%, find the number of black balls he has.

- A 56
- B 66
- C 64
- D 54

Answer: B

Explanation:

A boy has 120 balls of which some are white and the remaining are black.

Percentage of white balls is 45%.

$$\text{Total white balls} = 0.45 \times 120 = 54$$

$$\text{Total black balls} = 120 - 54 = 66$$

Option B is correct.

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Question 13

The SP of a washing machine is $1\frac{1}{3}$ of its C.P. Find the gain percent.

A 33%

B $33\frac{1}{3}\%$

C $66\frac{1}{3}\%$

D 66%

Answer: B

Explanation:

Let the cost price be x . Then,

$$\text{selling price} = 1\frac{1}{3}x$$

$$= \frac{4}{3}x$$

$$\text{Gain} = \text{Selling Price} - \text{Cost Price}$$

$$= \frac{4}{3}x - x$$

$$= \frac{4x - 3x}{3}$$

$$= \frac{x}{3}$$

$$\text{Gain \%} = \frac{\text{gain}}{\text{cp}} \times 100$$

$$= \frac{\frac{x}{3}}{x} \times 100$$

$$= \frac{100}{3}$$

$$= 33\frac{1}{3}\%$$

Question 14

The price of the sugar goes up by 30%. By what percent should Sita reduce her consumption so that the expenditure does not increase?

A $23\frac{1}{13}\%$

B $22\frac{1}{13}\%$

C 23%

D 22%

Answer: A

Explanation:

Since, Expenditure = price \times consumption

And Expenditure is constant. So, price is inversely proportional to consumption.

Ratio of price = 10 : 13

So, ratio of consumption = 13 : 10

$$\begin{aligned} \text{\% decrease in consumption} &= \frac{3}{13} \times 100 \\ &= \frac{300}{13} \% \end{aligned}$$

Question 15

What percentage of 1 day is 18 minutes?

- A 7.5%
- B 1.25%
- C 12.5%
- D 1.8%

Answer: B

Explanation:

Number of hours in a day = 24 hours

Number of minutes per hour = 60 minutes

Then, Number of minutes per day = $\frac{24 \times 60}{18} = 1440$ minutes

Therefore, Required percentage = $1440 \times 100 = 1.25\%$

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