



Exercise 10B

Q1

Answer :

Maximum marks of the examination = 750

Marks secured by Rupesh = 495

Percentage of marks secured = $\left(\frac{495}{750} \times 100\right)\% = 66\%$

Hence, Rupesh scored 66% in the examination.

Q2

Answer :

Total monthly salary = Rs 15625

Increase percentage = 12%

∴ Amount increase = 12% of Rs 15625

$$= \text{Rs} \left(15625 \times \frac{12}{100}\right) = \text{Rs } 1875$$

∴ New salary = Rs 15625 + Rs 1875

$$= \text{Rs } 17500$$

Hence, the new salary of the typist is Rs 17,500.

Q3

Answer :

Original excise duty on the item = Rs 950

Amount reduced on excise duty = Rs (950 – 760) = Rs 190

$$\begin{aligned}\therefore \text{Reduction percent} &= \left(\frac{\text{Reduction amount}}{\text{Original value}} \times 100\right) \\ &= \left(\frac{190}{950} \times 100\right) = 20\end{aligned}$$

Hence, the excise duty on that item is reduced by 20%.

Q4

Answer :

Let Rs x be the total cost of the TV set.

Now, 96% of the total cost of TV = Rs 10464

\Rightarrow 96% of Rs x = Rs 10464

$$\Rightarrow \left(\frac{96}{100} \times x \right) = 10464$$

$$\therefore x = \left(\frac{10464 \times 100}{96} \right) = 10900$$

Hence, the total cost of the TV set is Rs 10900.

Q5

Answer :

Let the total number of students be 100.

Then, number of boys = 70

$$\therefore \text{Number of girls} = (100 - 70) = 30$$

Now, total number of students when the number of girls is 30 = 100

Then, total number of students when the number of girls is 504 = $\left(\frac{100}{30} \times 504 \right) = 1680$

$$\therefore \text{Number of boys} = (1680 - 504) = 1176$$

Hence, there are 1176 boys in the school.

Q6

Answer :

Let x kg be the amount of the required ore.

Then, 12% of x kg = 69 kg

$$\Rightarrow \left(\frac{12}{100} \times x \right) \text{ kg} = 69 \text{ kg}$$

$$\Rightarrow x = \left(\frac{69 \times 100}{12} \right) \text{ kg} = 575 \text{ kg}$$

Hence, 575 kg of ore is required to get 69 kg of copper.

Q7

Answer :

Let x be the maximum marks.

$$\text{Pass marks} = (123 + 39) = 162$$

Then, 36% of $x = 162$

$$\Rightarrow \left(\frac{36}{100} \times x \right) = 162$$

$$\Rightarrow x = \left(\frac{162 \times 100}{36} \right) = 450$$

\therefore Maximum marks = 450

Q8

Answer :

Suppose that the fruit seller initially had 100 apples.

Apples sold = 40

\therefore Remaining apples = $(100 - 40) = 60$

***** END *****