



Exercise 11B

$$\begin{aligned}
 &= \left( \frac{3}{15} \times 100 \right) \% \\
 &= \frac{300}{15} \% \\
 &= 20\%
 \end{aligned}$$

Q8

**Answer :**

(d)  $33 \frac{1}{3} \%$

Let the cost price of each toffee be Rs. 1

Cost price of three toffees = Rs 3

SP of three toffees = CP of four toffees = Rs 4

CP = Rs 3

SP = Rs 4

Gain = SP - CP = Rs ( 4 - 3 ) = Re 1

$$\text{Gain}\% = \left( \frac{\text{Gain}}{\text{CP}} \times 100 \right) \%$$

$$= \left( \frac{1}{3} \times 100 \right) \%$$

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

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

Q9

**Answer :**

(c) Rs. 176

SP of an article = Rs. 144

Loss% = 10

$$\begin{aligned}
 CP &= \left\{ \frac{100}{(100 - \text{Loss } \%)} \times SP \right\} \\
 &= \left\{ \frac{100}{(100 - 10)} \times 144 \right\} \\
 &= \frac{100}{90} \times 144 \\
 &= \frac{1440}{9} \\
 &= \text{Rs. } 160
 \end{aligned}$$

In order to gain 10%:

$$\begin{aligned}
 S.P. &= \frac{(100 + \text{Gain } \%)}{100} \times CP \\
 &= \frac{(100 + 10)}{100} \times 160 \\
 &= \frac{110}{100} \times 160 \\
 &= \text{Rs. } 176
 \end{aligned}$$

Q10

**Answer :**

(a) 50%

CP of six lemons = Re 1

CP of one lemon = **Rs**  $\frac{1}{6}$

CP of four lemon = **Rs**  $\frac{4}{6}$

SP of four lemon = Re 1

$$\text{Gain} = 1 - \frac{4}{6} = \frac{2}{6} = \text{Rs } \frac{1}{3}$$

$$\text{Gain}\% = \left( \frac{\text{Gain}}{CP} \times 100 \right)$$

$$= \left( \frac{3}{2 \times 3} \times 100 \right)$$

$$= \frac{100}{2}$$

$$= 50$$

Q11

**Answer :**

(d)Rs. 600

SP of the chair = Rs 720

Gain% = 20

$$C.P. = \left\{ \frac{100}{(100 + \text{Profit percentage})} \times S.P. \right\}$$

$$= \left\{ \frac{100}{120} \times 720 \right\}$$

$$= \frac{7200}{12}$$

$$= \text{Rs. 600}$$

Q12

**Answer :**

(c) Rs. 700

SP of a stool = Rs 630

Loss% = 10

$$CP = \left\{ \frac{100}{(100 - \text{Loss \%})} \times SP \right\}$$

$$= \left\{ \frac{100}{(100 - 10)} \times 630 \right\}$$

$$= \frac{100}{90} \times 630$$

$$= \text{Rs } 700$$

\*\*\*\*\*END\*\*\*\*\*