Fractions Ex 2.2 Q9

Answer :

In one day, Lipika reads for $1\frac{3}{4}$ hours.

$1\frac{3}{4}\text{ hours} = \frac{(1\times4)+3}{4} = \frac{7}{4}\text{ hours}$

Total hours required = $\frac{7}{4}\times 6 = \frac{42}{4}\text{ hours} = \frac{21}{2}\text{ hours} = 10\frac{1}{2}\text{ hours}$

Fractions Ex 2.2 Q10

Answer :

$\text{Length of rectangular park} = 41\frac{2}{3}\text{ m} = \frac{(41\times3)+2}{3}\text{ m}$

$\Rightarrow \text{Length of rectangular park} = \frac{125}{3}\text{ m}$

$\text{Width of rectangular park} = 18\frac{3}{5}\text{ m} = \frac{(18\times5)+3}{5}\text{ m}$

$\Rightarrow \text{Width of rectangular park} = \frac{93}{5}\text{ m}$

Area of rectangular park = Length of rectangular park × Width of rectangular park

$\text{Area of rectangular park} = \frac{125}{3}\times\frac{93}{5} = 775\text{m}^2$

Fractions Ex 2.2 Q11

Answer :

Cost of 1 litre milk = $\text{Rs. } 17\frac{3}{4}$

$17\frac{3}{4} = \frac{(17\times4)+3}{4} = \frac{71}{4}$

$\Rightarrow \text{Cost of 1 litre milk} = \text{Rs. } \frac{71}{4}$

$7\frac{2}{5}\text{ litres} = \frac{(7\times5)+2}{5} = \frac{37}{5}\text{ litres}$

$\text{Cost of } \frac{37}{5}\text{ litres milk} = \text{Cost of 1 litre milk} \times \frac{37}{5}$

$\text{Cost of } \frac{37}{5}\text{ litres milk} = \frac{71}{4}\times\frac{37}{5} = \text{Rs. } \frac{2627}{20} = \text{Rs. } 131\frac{7}{20}$

Fractions Ex 2.2 Q12

Answer :

$8\frac{1}{3}\text{ km} = \frac{(8\times3)+1}{3}$

$\Rightarrow 8\frac{1}{3}\text{ km} = \frac{25}{3}\text{ km}$

Distance covered by Sharda in 1 hour = $\frac{25}{3}$km

$2\frac{2}{5}\text{ hours} = \frac{(2\times5)+2}{5} = \frac{12}{5}\text{ hours}$

Distance covered by Sharda in $\frac{12}{5}$ hours = Distance covered in 1 hour × $\frac{12}{5}$

⇒Distance covered by Sharda in $\frac{12}{5}$ hours = $\frac{25}{3}\times\frac{12}{5} = 20\text{ km}$

********** END **********