



Exercise 1G

Q5

Answer :

$$\begin{aligned}
 \text{Cost of } 3\frac{2}{5} \text{ m cloth} &= 3\frac{2}{5} \times 36\frac{3}{4} \\
 &= \left(3 + \frac{2}{5}\right) \times \left(36 + \frac{3}{4}\right) \\
 &= \frac{17}{5} \times \frac{147}{4} \\
 &= \frac{17 \times 147}{5 \times 4} \\
 &= \frac{2499}{20} \\
 &= \text{Rs } 124\frac{19}{20} \\
 \text{Therefore, the cost of } 3\frac{2}{5} \text{ m cloth is Rs } 124\frac{19}{20}.
 \end{aligned}$$

Q6

Answer :

$$\text{Distance covered by the car in } 7\frac{1}{2} \text{ hours} = 7\frac{1}{2} \times 40\frac{2}{5} \quad [\text{Distance} = \text{Speed} \times \text{Time}]$$

$$\begin{aligned}
 &= \left(7 + \frac{1}{2}\right) \times \left(40 + \frac{2}{5}\right) \\
 &= \frac{15}{2} \times \frac{202}{5} \\
 &= \frac{15 \times 202}{10} \\
 &= \frac{3030}{10} \\
 &= 303 \text{ km}
 \end{aligned}$$

Therefore, distance covered by the car is 303 km.

Q7

Answer :

Area of the rectangular park = Length of the park \times Breadth of the park (\because Area of rectangle = Length \times Breadth)

$$\begin{aligned}
 &= 36\frac{3}{5} \times 16\frac{2}{3} \\
 &= \left(36 + \frac{3}{5}\right) \times \left(16 + \frac{2}{3}\right) \\
 &= \frac{183}{5} \times \frac{50}{3} \\
 &= \frac{183 \times 50}{5 \times 3} \\
 &= \frac{9150}{15} \\
 &= 610 \text{ m}^2
 \end{aligned}$$

Therefore, the area of the rectangular park is 610 m².

Q9

Answer :

Area of the square plot = Side \times Side = **(Side)²** = a^2 (Because the area of the square is a^2 , where a is the side of the square)

$$\begin{aligned} &= 8\frac{1}{2} \times 8\frac{1}{2} \\ &= \left(8 + \frac{1}{2}\right) \times \left(8 + \frac{1}{2}\right) \\ &= \frac{17}{2} \times \frac{17}{2} \\ &= \frac{17 \times 17}{2 \times 2} \\ &= \frac{289}{4} \\ &= 72\frac{1}{4} \text{ m}^2 \end{aligned}$$

Therefore, the area of the square plot is $72\frac{1}{4} \text{ m}^2$.

Q10

Answer :

$$\begin{aligned} \text{Distance covered by the aeroplane in } 4\frac{1}{6} \text{ hours} &= 4\frac{1}{6} \times 1020 \\ &= \left(4 + \frac{1}{6}\right) \times 1020 \\ &= \frac{25}{6} \times 1020 \\ &= \frac{25}{6} \times \frac{1020}{1} \\ &= \frac{25 \times 1020}{6 \times 1} \\ &= \frac{25500}{6} \\ &= 4250 \text{ km} \end{aligned}$$

Therefore, the distance covered by the aeroplane is **4250 km**.

***** END *****