

Name: _____ Date: _____

Multiplication of Fractions

Q1. Diva has read $\frac{2}{3}$ of a book consisting of 270 pages. How many pages are still left?

Q2. A bike runs 20 km in 1 litre of petrol. How much distance will it cover using $5\frac{1}{4}$ of petrol?

Q3. Simplify $\frac{11}{7} \times \frac{5}{44}$

Multiplication of Fractions

Q1. Diva has read $\frac{2}{3}$ of a book consisting of 270 pages. How many pages are still left?

Solution: Total number of pages = 270

Number of pages read by Diva = $\frac{2}{3} \times 270$

$$= \frac{2}{\cancel{3}} \times \cancel{270}$$

$$= 2 \times 90$$

$$= 180 \text{ pages}$$

Number of pages left = $270 - 180 = 90$ pages

Q2. A bike runs 20 km in 1 litre of petrol. How much distance will it cover using $5\frac{1}{4}$ of petrol?

Solution: In 1 litre of petrol bike runs 20 km

In $5\frac{1}{4}$ of petrol bike will cover = $5\frac{1}{4} \times 20$

$$= \frac{21}{4} \times 20$$

$$= \frac{21}{\cancel{4}} \times \cancel{20}$$

$$= 21 \times 5 = 105 \text{ km}$$

Q3. Simplify $\frac{11}{7} \times \frac{5}{44}$

$$= \frac{\cancel{11} \times 5}{7 \times \cancel{44}}$$

$$= \frac{1 \times 5}{7 \times 4} = \frac{5}{28}$$