

## Exercise - 6.7

C Solve. Read and write the statements of word problems.

1. Fraction of Lawn mowed on Monday =  $\frac{1}{4}$   
Fraction of Lawn mowed on Tuesday =  $\frac{1}{4}$

Required fraction of the Lawn mowed on these two days =  $\frac{1}{4} + \frac{1}{4}$

$$= \frac{1+1}{4} = \frac{2}{4} = \frac{2 \div 2}{4 \div 2} = \frac{1}{2}$$

Ans. Robert mowed  $\frac{1}{2}$  of the Lawn on these two days.

2. Quantity of sugar Raju bought =  $1\frac{1}{4}$  kg =  $\frac{1 \times 4 + 1}{4}$  kg  
 $= \frac{5}{4}$  kg

Quantity of rice Raju bought =  $\frac{3}{4}$  kg

Total weight of both =  $\frac{5}{4}$  kg +  $\frac{3}{4}$  kg

$$= \frac{5+3}{4} \text{ kg}$$

$$= \frac{8}{4} \text{ kg}$$

$$= \frac{8 \div 4}{4 \div 4} \text{ kg}$$

$$= \frac{2}{1} \text{ kg} = 2 \text{ kg}$$

Ans. The required total weight of both is 2 kg

3. Length of ribbon Tina had =  $\frac{2}{5}$  m

Length of ribbon Maya had =  $\frac{3}{5}$  m

Total length of ribbon they had =  $\frac{2}{5}$  m +  $\frac{3}{5}$  m



$$= \left(\frac{2}{5} + \frac{3}{5}\right) m$$

$$= \left(\frac{2+3}{5}\right) m$$

$$= \frac{5}{5} m$$

$$= 1 m$$

Ans. The required total length of the ribbon is 1m.

4. Fraction of a chocolate Bonty ate =  $\frac{1}{4}$

Fraction of a chocolate Mohit ate =  $1\frac{1}{4}$

Total fraction of the chocolate they ate =  $\frac{1}{4} + 1\frac{1}{4}$

$$= \frac{1}{4} + \frac{1 \times 4 + 1}{4}$$

$$= \frac{1}{4} + \frac{5}{4}$$

$$= \frac{1+5}{4}$$

$$= \frac{6}{4}$$

$$= 1\frac{2}{4}$$

Ans. They ate  $1\frac{2}{4}$  Chocolate together.

5. Length of a blue ribbon =  $\frac{2}{8} m$

Length of red ribbon is longer than the blue ribbon by =  $\frac{1}{8} m$

Length of red ribbon =  $\left(\frac{2}{8} + \frac{1}{8}\right) m$

$$= \frac{2+1}{8} m = \frac{3}{8} m$$

Ans. The required length of red ribbon is  $\frac{3}{8} m$ .

6. Weight of rice Rama bought =  $\frac{3}{4}$  kg  
Weight of rice she cooked =  $\frac{1}{4}$  kg  
Weight of rice was left over =  $(\frac{3}{4} - \frac{1}{4})$  kg

$$= \frac{3-1}{4} \text{ kg}$$

$$= \frac{2}{4} \text{ kg}$$

$$= \frac{2 \div 2}{4 \div 2} \text{ kg} = \frac{1}{2} \text{ kg}$$

Ans.  $\frac{1}{2}$  kg rice was left over.

7. Fraction of cake Lekha ate =  $\frac{1}{4}$   
Fraction of cake Meera ate =  $\frac{3}{4}$

$$\text{As } \frac{1}{4} < \frac{3}{4}$$

So Meera ate more cake by =  $\frac{3}{4} - \frac{1}{4}$

$$= \frac{3-1}{4} = \frac{2}{4}$$

$$= \frac{2 \div 2}{4 \div 2}$$

$$= \frac{1}{2}$$

Ans. Meera ate more cake by  $\frac{1}{2}$  than Lekha.

8) Length of ribbon Maya had =  $2\frac{1}{5}$  m =  $\frac{2 \times 5 + 1}{5}$  m =  $\frac{11}{5}$  m  
Length of ribbon she cut =  $1\frac{2}{5}$  m =  $\frac{1 \times 5 + 2}{5}$  m =  $\frac{7}{5}$  m



$$\begin{aligned}
 \text{Length of ribbon was left} &= \frac{11}{5} \text{ m} - \frac{6}{5} \text{ m} \\
 &= \left( \frac{11}{5} - \frac{6}{5} \right) \text{ m} \\
 &= \left( \frac{11-6}{5} \right) \text{ m} \\
 &= \frac{5}{5} \text{ m} = 1 \text{ m}
 \end{aligned}$$

Ans. 1m ribbon was left with Maya.

$$\begin{aligned}
 9. \text{ Quantity of juice contain in a bottle} &= 2\frac{1}{4} \text{ L} \\
 &= \frac{2 \times 4 + 1}{4} \text{ L} \\
 &= \frac{9}{4} \text{ L}
 \end{aligned}$$

$$\text{Quantity of juice taken out} = \frac{3}{4} \text{ L}$$

$$\text{Quantity of juice left in the bottle} = \frac{9}{4} \text{ L} - \frac{3}{4} \text{ L}$$

$$= \left( \frac{9}{4} - \frac{3}{4} \right) \text{ L}$$

$$= \left( \frac{9-3}{4} \right) \text{ L}$$

$$= \frac{6}{4} \text{ L}$$

$$= \frac{6 \div 2}{4 \div 2} \text{ L}$$

$$= \frac{3}{2} \text{ L} = 1\frac{1}{2} \text{ L}$$

Ans.  $1\frac{1}{2}$  L juice was left in the bottle.

$$\begin{aligned}
 10. \text{ Height of Rohan} &= 1\frac{1}{5} \text{ m tall} = \frac{1 \times 5 + 1}{5} \text{ m} = \frac{6}{5} \text{ m} \\
 \text{Height of Jojo is shorter than Rohan by} &= \frac{2}{5} \text{ m} \\
 \text{Height of Jojo} &= \frac{6}{5} \text{ m} - \frac{2}{5} \text{ m} = \left( \frac{6-2}{5} \right) \text{ m} = \frac{4}{5} \text{ m}
 \end{aligned}$$

Ans. Jojo's height is  $\frac{4}{5}$  m.