

## Fraction of a Set Worksheets

1. Solve using a tape diagram.

a.  $\frac{1}{3}$  of 18

b.  $\frac{1}{3}$  of 36

c.  $\frac{3}{4} \times 24$

d.  $\frac{3}{8} \times 24$

e.  $\frac{4}{5} \times 25$

f.  $\frac{1}{7} \times 140$

g.  $\frac{1}{4} \times 9$

h.  $\frac{2}{5} \times 12$

i.  $\frac{2}{3}$  of a number is 10. What's the number?

j.  $\frac{3}{4}$  of a number is 24. What's the number?

## Fraction of a Set Worksheets

1. Solve using a tape diagram.

a.  $\frac{1}{3}$  of 18



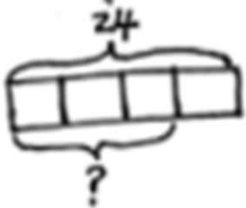
$$\begin{aligned} 3 \text{ units} &= 18 \\ 1 \text{ unit} &= 18 \div 3 \\ &= \frac{18}{3} = 6 \end{aligned}$$

b.  $\frac{1}{3}$  of 36



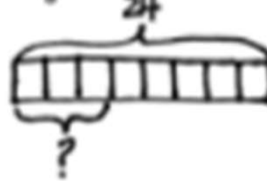
$$\begin{aligned} 3 \text{ units} &= 36 \\ 1 \text{ unit} &= 36 \div 3 \\ &= \frac{36}{3} = 12 \end{aligned}$$

c.  $\frac{3}{4} \times 24$



$$\begin{aligned} 4 \text{ units} &= 24 \\ 1 \text{ unit} &= \frac{24}{4} = 6 \\ 3 \text{ units} &= 3 \times 6 = 18 \end{aligned}$$

d.  $\frac{3}{8} \times 24$



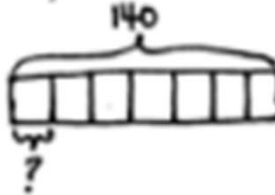
$$\begin{aligned} 8 \text{ units} &= 24 \\ 1 \text{ unit} &= 24 \div 8 = \frac{24}{8} = 3 \\ 3 \text{ units} &= 3 \times 3 = 9 \end{aligned}$$

e.  $\frac{4}{5} \times 25$



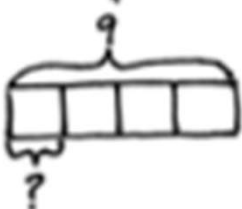
$$\begin{aligned} 5 \text{ units} &= 25 \\ 1 \text{ unit} &= \frac{25}{5} = 5 \\ 4 \text{ units} &= 4 \times 5 \\ &= 20 \end{aligned}$$

f.  $\frac{1}{7} \times 140$



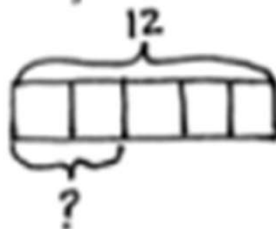
$$\begin{aligned} 7 \text{ units} &= 140 \\ 1 \text{ unit} &= \frac{140}{7} \\ &= 20 \end{aligned}$$

g.  $\frac{1}{4} \times 9$



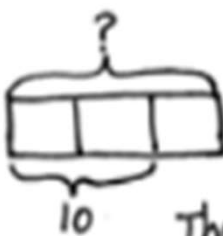
$$\begin{aligned} 4 \text{ units} &= 9 \\ 1 \text{ unit} &= \frac{9}{4} \\ &= 2\frac{1}{4} \end{aligned}$$

h.  $\frac{2}{5} \times 12$



$$\begin{aligned} 5 \text{ units} &= 12 \\ 1 \text{ unit} &= \frac{12}{5} = 2\frac{2}{5} \\ 2 \text{ units} &= 2\frac{2}{5} + 2\frac{2}{5} = 4\frac{4}{5} \end{aligned}$$

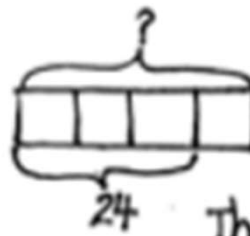
i.  $\frac{2}{3}$  of a number is 10. What's the number?



$$\begin{aligned} 2 \text{ units} &= 10 \\ 1 \text{ unit} &= \frac{10}{2} = 5 \\ 3 \text{ units} &= 3 \times 5 = 15 \end{aligned}$$

The number is 15.

j.  $\frac{3}{4}$  of a number is 24. What's the number?



$$\begin{aligned} 3 \text{ units} &= 24 \\ 1 \text{ unit} &= \frac{24}{3} = 8 \\ 4 \text{ units} &= 4 \times 8 = 32 \end{aligned}$$

The number is 32.