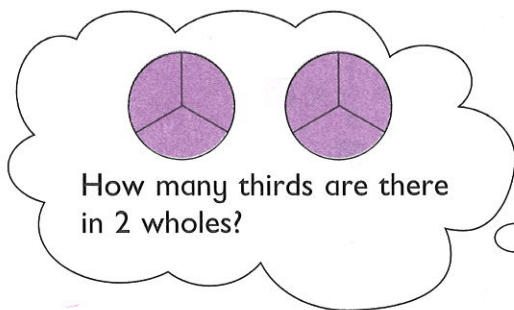


1. Divide 2 by  $\frac{1}{3}$ .

$$2 \div \frac{1}{3} = 2 \times 3 \\ = \blacksquare$$



2. Divide.

(a)  $1 \div \frac{1}{4} = 1 \times \blacksquare$   
 $= \blacksquare$

(b)  $2 \div \frac{1}{5} = 2 \times \blacksquare$   
 $= \blacksquare$

3. Divide.

(a)  $4 \div \frac{1}{2}$

(b)  $6 \div \frac{1}{6}$

(c)  $3 \div \frac{1}{7}$

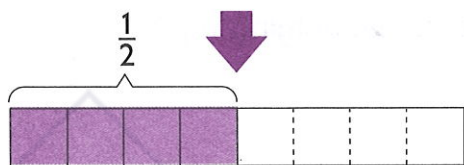
(d)  $8 \div \frac{1}{4}$

(e)  $5 \div \frac{1}{3}$

(f)  $9 \div \frac{1}{9}$

4. Divide  $\frac{1}{2}$  by 4.

Workbook Exercise 1



$$\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} \\ = \blacksquare$$

Divide  $\frac{1}{2}$  into 4 equal parts.

Each part is  $\frac{1}{8}$ .



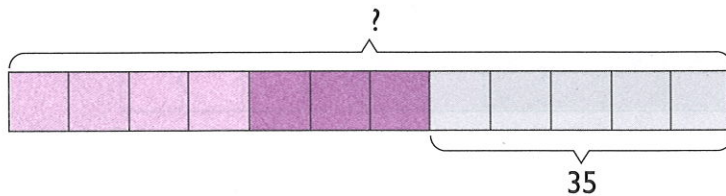
Dividing by 4 is the same as multiplying by  $\frac{1}{4}$ .

1. Alex bought some chairs.  $\frac{1}{3}$  of them were red and  $\frac{1}{4}$  were blue. The remaining 35 chairs were yellow.
- (a) What fraction of the chairs were yellow?

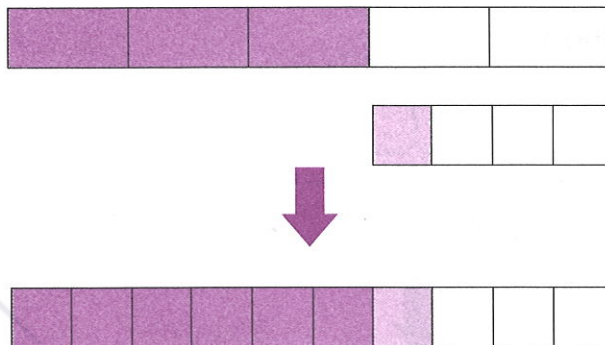
$$1 - \frac{1}{3} - \frac{1}{4} = \frac{5}{12}$$



- (b) How many chairs did Alex buy?



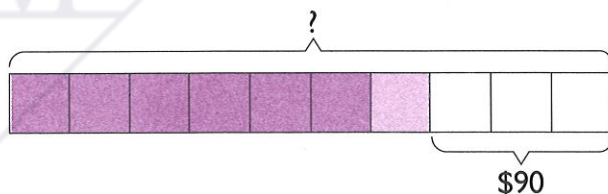
2. Max spent  $\frac{3}{5}$  of his money in a shop and  $\frac{1}{4}$  of the remainder in another shop.
- (a) What fraction of his money was left?



$$\begin{aligned} \frac{3}{4} \text{ of } \frac{2}{5} &= \frac{3}{4} \times \frac{2}{5} \\ &= \frac{3}{10} \end{aligned}$$



- (b) If he had \$90 left, how much money did he have at first?



1. Aziz measured the diameter and the circumference of three circles. He recorded the results as follows:

Circle	Diameter	Circumference
A	5 cm	15.7 cm
B	7 cm	22 cm
C	10 cm	31.4 cm

Find the value of **circumference**  $\div$  **diameter** for each circle. What do you notice?

The circumference of each circle is about 3.14 times the diameter.



The value of **circumference**  $\div$  **diameter** is the same for any circle. This value is represented by  $\pi$ .

$$\pi \approx 3.14 \text{ or } \frac{22}{7}$$

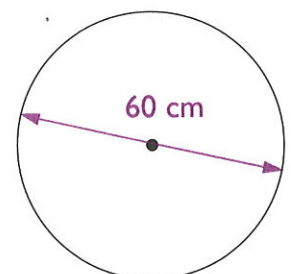
$$\text{Circumference of circle} = \pi \times \text{Diameter}$$

2. The diameter of a hoop is 60 cm. Find its circumference.  
(Take  $\pi = 3.14$ )

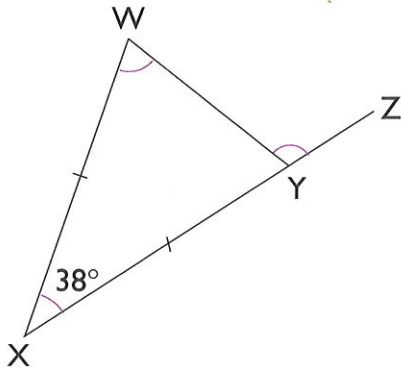
$$\text{Circumference} = \pi \times 60$$

$$= 3.14 \times 60$$

$$= \blacksquare \text{ cm}$$



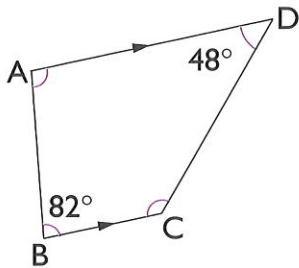
1. In the figure,  $XW = XY$ ,  $\angle WXY = 38^\circ$  and  $XYZ$  is a straight line. Find  $\angle XWY$  and  $\angle WYZ$ .



$$\begin{aligned}\angle XWY &= (180^\circ - 38^\circ) \div 2 \\ &= \blacksquare^\circ\end{aligned}$$

$$\angle WYZ = \blacksquare^\circ$$

2. In trapezoid ABCD,  $AD \parallel BC$ ,  $\angle ABC = 82^\circ$  and  $\angle ADC = 48^\circ$ . Find  $\angle BAD$  and  $\angle BCD$ .



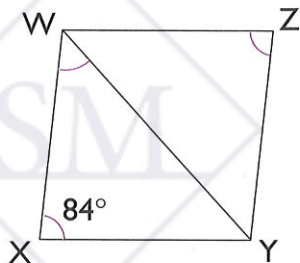
Each pair of angles between two parallel sides add up to  $180^\circ$ .



$$\angle BAD = 180^\circ - 82^\circ = \blacksquare^\circ$$

$$\angle BCD = 180^\circ - 48^\circ = \blacksquare^\circ$$

3. In rhombus WXYZ,  $\angle WXY = 84^\circ$ . Find  $\angle WZY$  and  $\angle XWY$ .



A rhombus has 4 equal sides.



$$\angle WZY = \blacksquare^\circ$$

$$\angle XWY = \blacksquare^\circ$$