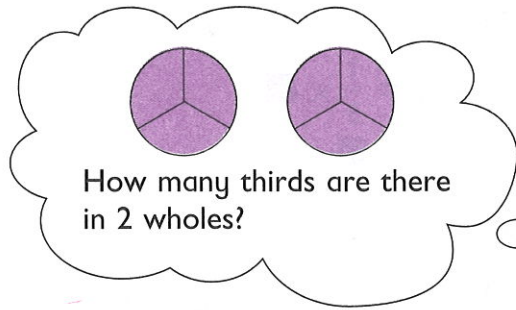


1. Divide 2 by $\frac{1}{3}$.

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

$$= \blacksquare$$



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

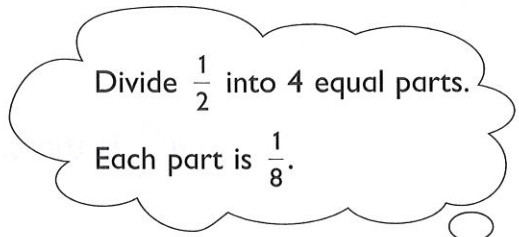
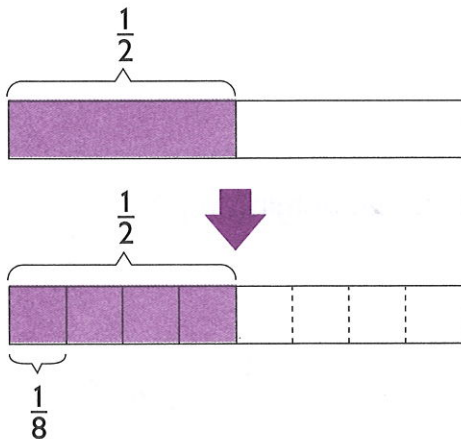
(d) $8 \div \frac{1}{4}$

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

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

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

Workbook Exercise 1



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

$$= \blacksquare$$

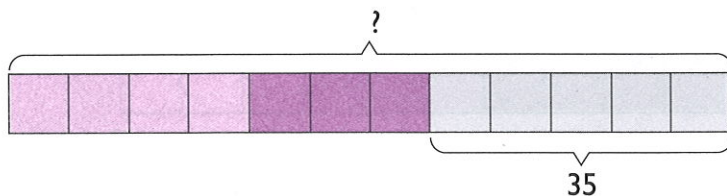
Dividing by 4 is the same as multiplying by $\frac{1}{4}$.

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?

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

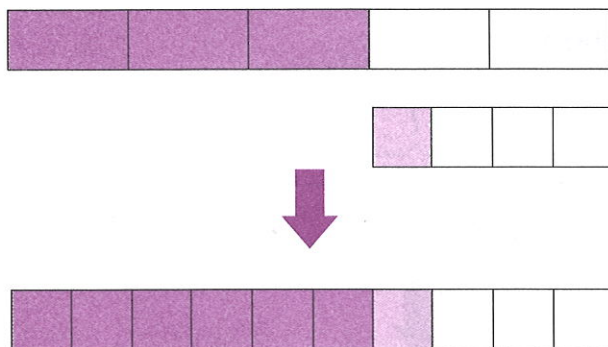


- (b) How many chairs did Alex buy?



2. Max spent $\frac{3}{5}$ of his money in a shop and $\frac{1}{4}$ of the remainder in another shop.

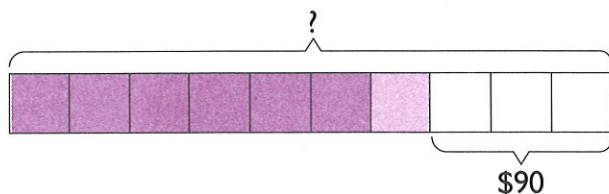
- (a) What fraction of his money was left?



$$\frac{3}{4} \text{ of } \frac{2}{5} = \frac{3}{4} \times \frac{2}{5} = \frac{3}{10}$$



- (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 π .

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

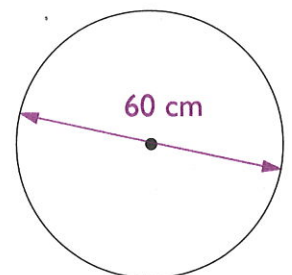
$$\text{Circumference of circle} = \pi \times \text{Diameter}$$

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

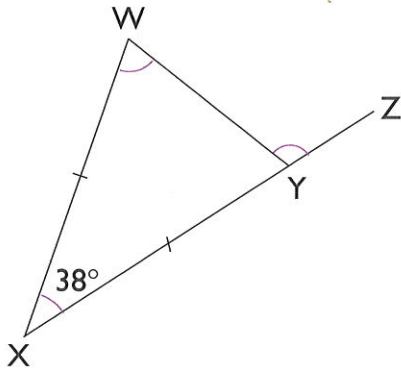
$$\text{Circumference} = \pi \times 60$$

$$= 3.14 \times 60$$

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



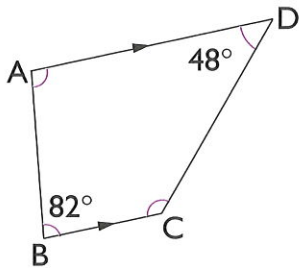
1. In the figure, $XW = XY$, $\angle WXY = 38^\circ$ and XYZ is a straight line. Find $\angle XWY$ and $\angle WYZ$.



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

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

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



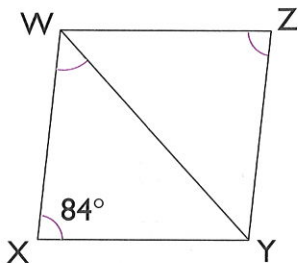
Each pair of angles between two parallel sides add up to 180° .



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

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

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



A rhombus has 4 equal sides.



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

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