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

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

   $\qquad = \blacksquare$

   How many thirds are there in 2 wholes?

2. Divide.

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

   $\qquad\qquad = \blacksquare$

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

   $\qquad\qquad = \blacksquare$

3. Divide.

   (a) $4 \div \frac{1}{2}$
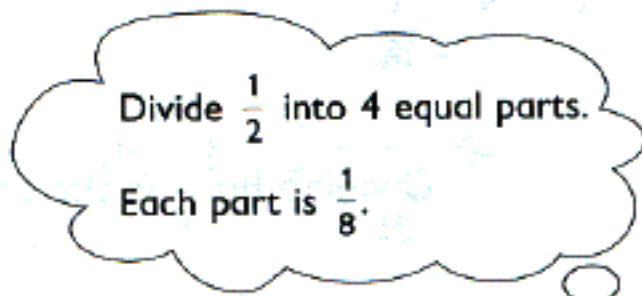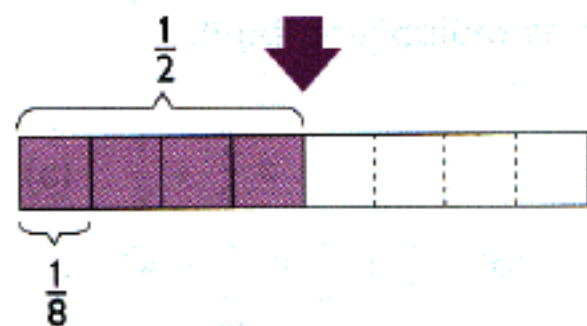
   (b) $6 \div \frac{1}{6}$

   (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.

   $\frac{1}{2}$

   $\frac{1}{2}$

   $\frac{1}{8}$

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

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

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

   $\qquad = \blacksquare$

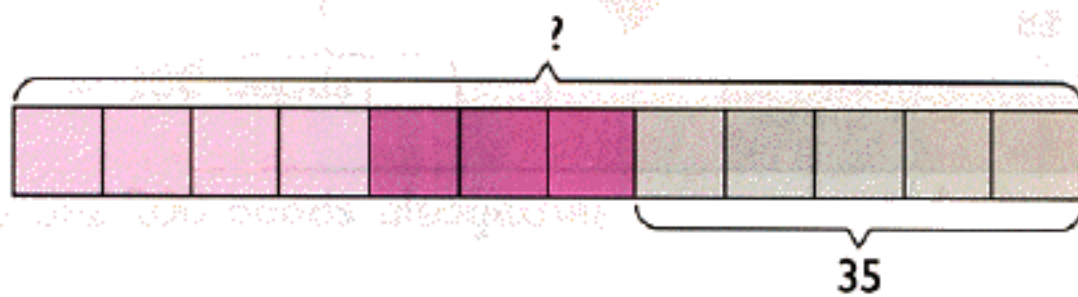   Dividing by 4 is the same as multiplying by $\frac{1}{4}$.

7

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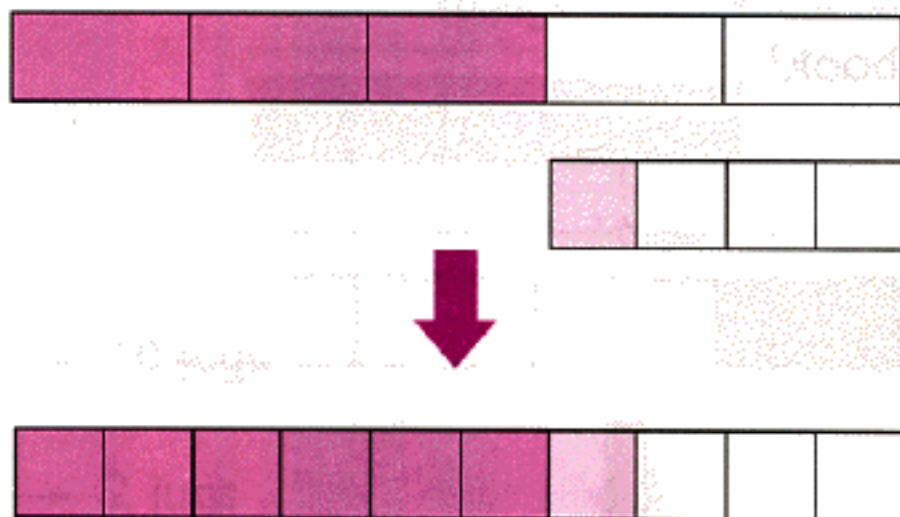   (a) What fraction of the chairs were yellow?

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

   (b) How many chairs did Alex buy?

   ?

   35

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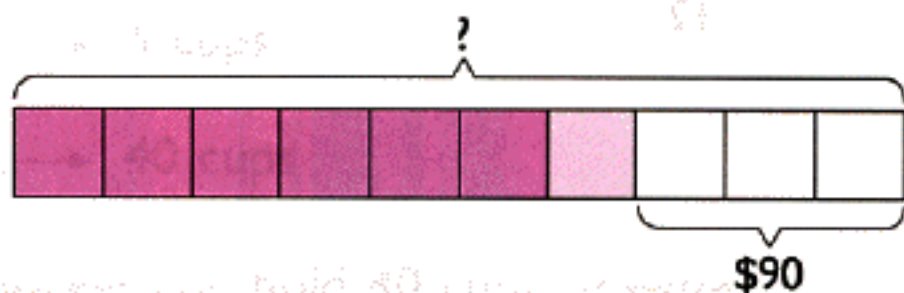   another shop.
   (a) What fraction of his money was left?

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

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

   ?

   $90

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 ÷ diameter** for each circle. What do you notice?

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

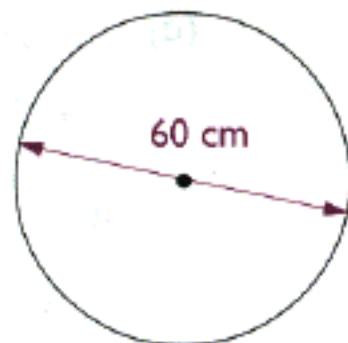The value of **circumference ÷ diameter** is the same for any circle. This value is represented by π.

$\pi \approx 3.14$ or $\dfrac{22}{7}$

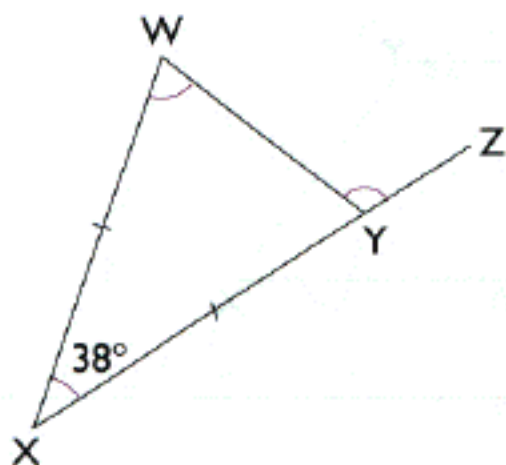Circumference of circle $= \pi \times$ Diameter

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

Circumference $= \pi \times 60$

$\qquad = 3.14 \times 60$

$\qquad = \blacksquare$ cm

60 cm

1. In the figure, XW = XY, ∠WXY = 38° and XYZ is a straight line. Find ∠XWY and ∠WYZ.

∠XWY = (180° − 38°) ÷ 2

= ■°

∠WYZ = ■°

2. In trapezoid ABCD, AD // BC, ∠ABC = 82° and ∠ADC = 48°. Find ∠BAD and ∠BCD.
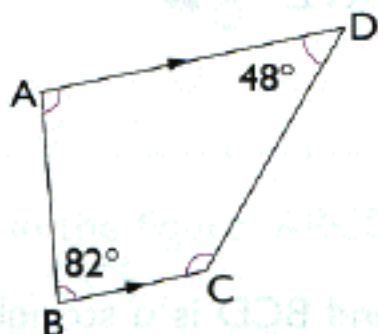
Each pair of angles between two parallel sides add up to 180°.

∠BAD = 180° − 82° = ■°

∠BCD = 180° − 48° = ■°

3. In rhombus WXYZ, ∠WXY = 84°. Find ∠WZY and ∠XWY.
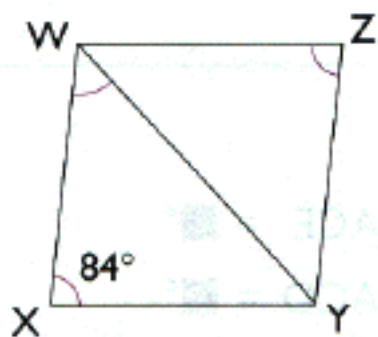
A rhombus has 4 equal sides.

∠WZY = ■°

∠XWY = ■°