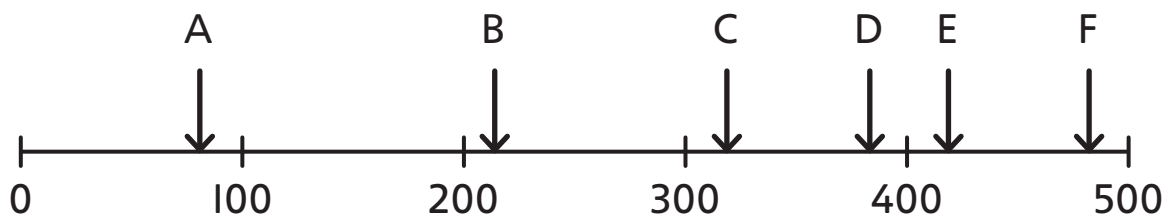


estimate

to use clues to make a guess,
with reasons

An **estimate** does not have to be exactly right.



I **estimate** that B is 210
because B is closer to
200 than 300.

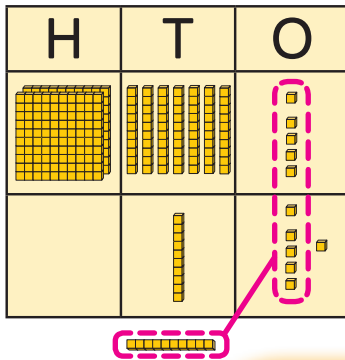


I **estimate** F is 475
because F is just
less than 500.



exchange

to swap a number for another of equal value when adding or subtracting

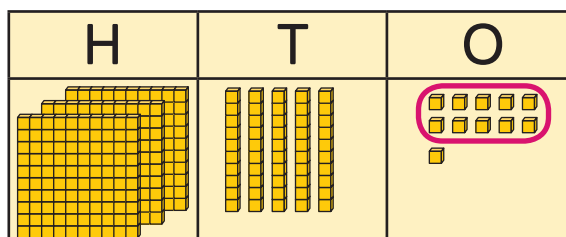
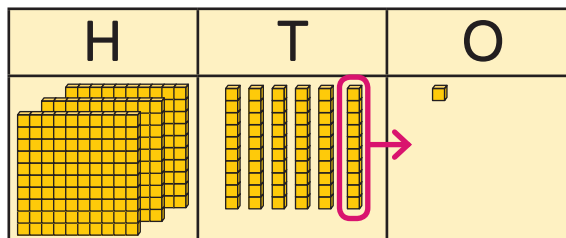


$$\begin{array}{r}
 \text{H T O} \\
 275 \\
 + \quad 16 \\
 \hline
 \quad \quad 1 \\
 \hline
 \quad \quad 1
 \end{array}$$



I have **exchanged** 10 ones for 1 ten in this addition.

I **exchanged** a ten for 10 ones in this subtraction.

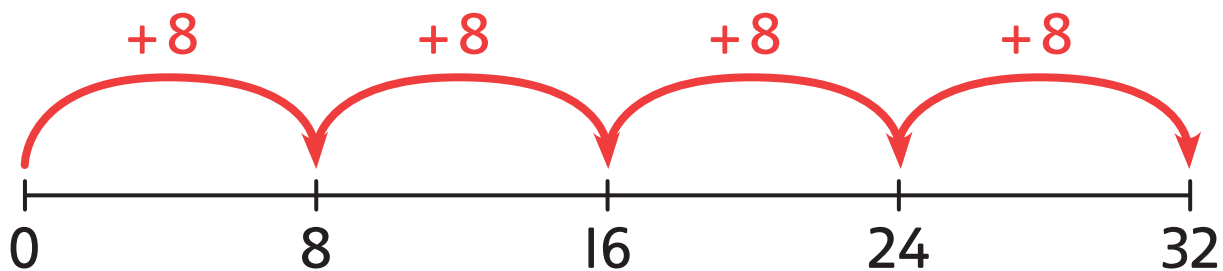


$$\begin{array}{r}
 \text{H T O} \\
 350 \\
 - 147 \\
 \hline
 \hline
 \hline
 \end{array}$$

multiple

All the numbers in a times-table are **multiples**.

These are **multiples** of 8. I could keep counting in 8s to find more.



I am counting in 4s. These are **multiples** of 4. I could keep going.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

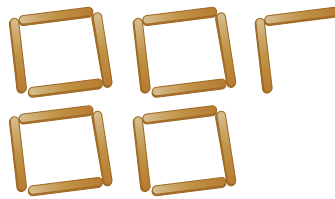
remainder

what is left over after a division



$$13 \div 4 = 3 \text{ remainder } 1$$

I divided 13 by 4.
There was 1 left
over at the end.
The **remainder** is 1.



$$18 \div 4 = 4 \text{ r } 2$$



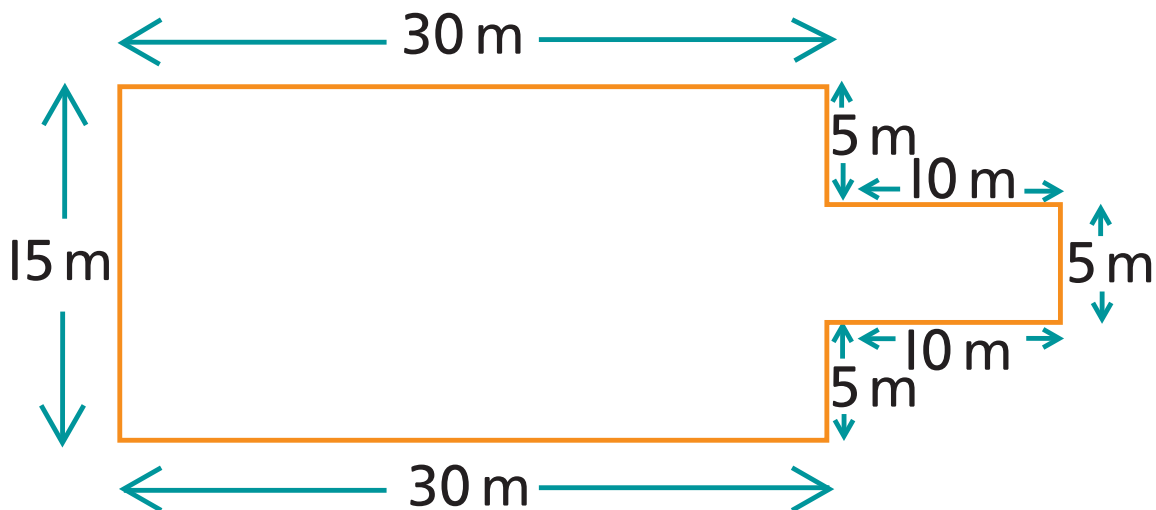
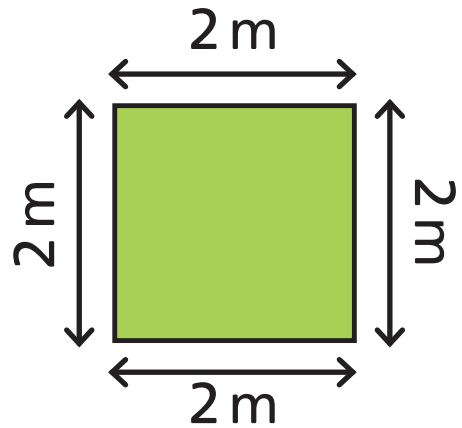
The **remainder** can
be more than 1. But it
cannot be more than the
number you divide by.

perimeter

the total length of the sides of a shape



$2 + 2 + 2 + 2 = 8$
The **perimeter** of the square is 8 m.

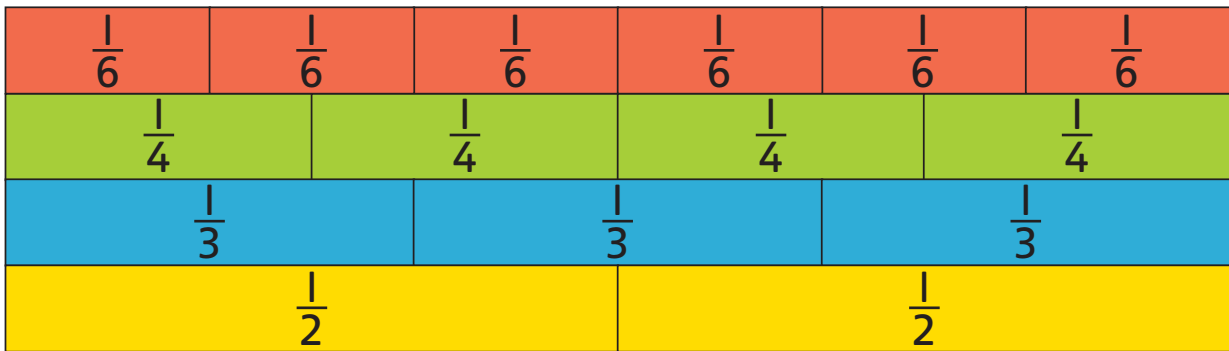


Perimeter is the length all the way around a shape. I will add up all the lengths until I get back to the start.



equivalent fractions

fractions that are of equal size



$$\frac{1}{2} = \frac{2}{4} \text{ and } \frac{1}{2} = \frac{3}{6}$$

I can see **equivalent fractions** on a fraction wall.



$$\frac{1}{2} = \frac{3}{6}$$

$$\times 3$$

$$\frac{4}{6} = \frac{2}{3}$$

$$\div 2$$

$$\frac{2}{3} = \frac{4}{6}$$

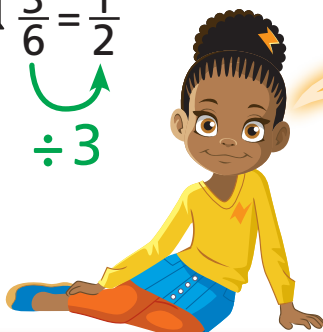
$$\times 2$$

$$\frac{3}{6} = \frac{1}{2}$$

$$\div 3$$

$$\frac{1}{3} = \frac{2}{6}$$

$$\times 2$$

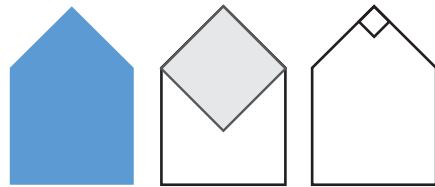


I work out **equivalent fractions** by multiplying or dividing the numerator and denominator by the same number.

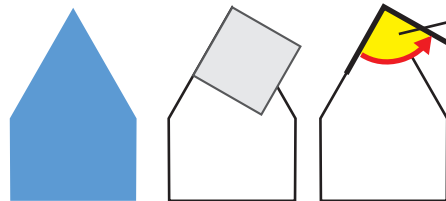
acute and obtuse

An **acute** angle is less than a right angle.

An **obtuse** angle is greater than a right angle.

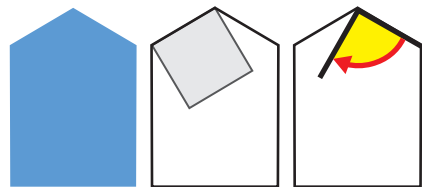


The roof has a right angle.



The roof has an **acute** angle.

The angle is less than a quarter turn or right angle.



The roof has an **obtuse** angle.

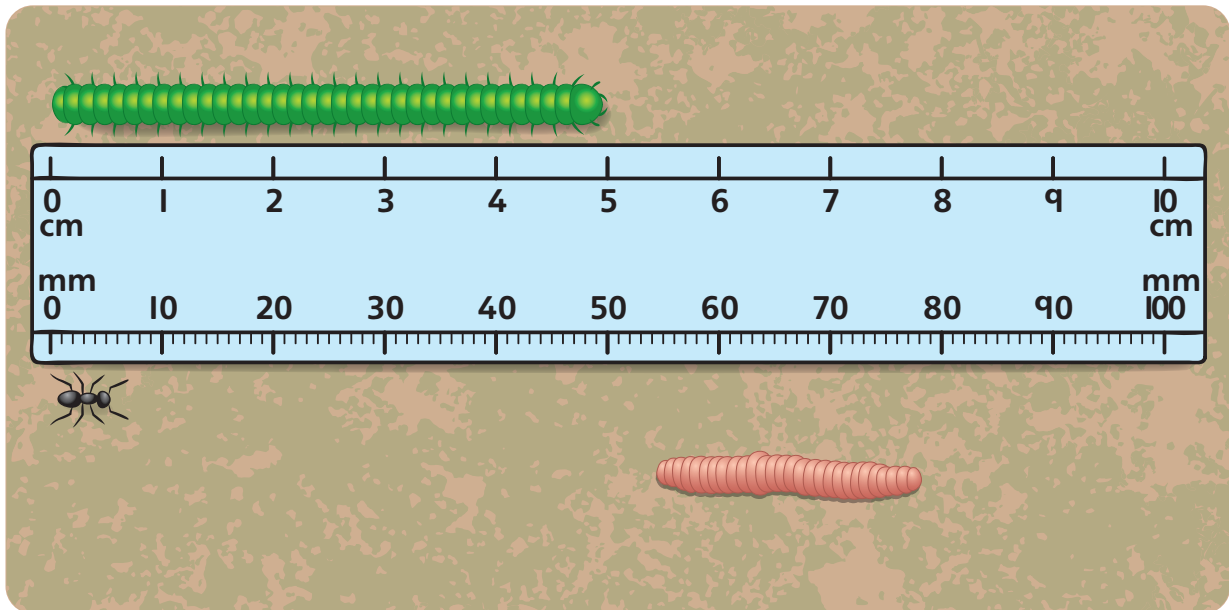
I used an angle measurer to check the angles

I thought about turns.



millimetre

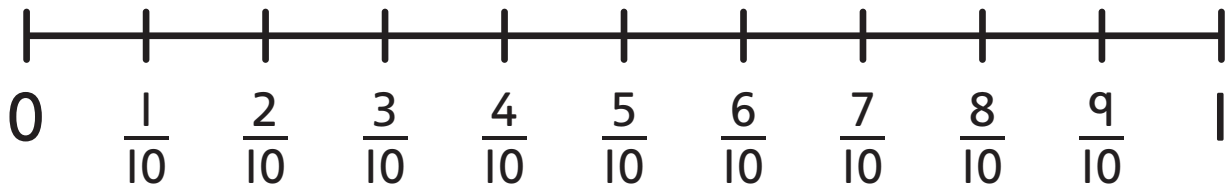
There are 10 millimetres (mm) in 1 centimetre.



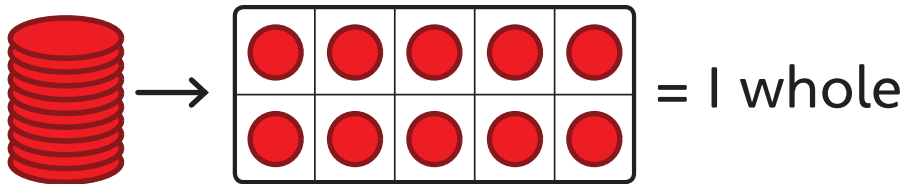
1 millimetre is a very small length.

tenths

There are 10 tenths in 1 whole.



One **tenth** written as a fraction is $\frac{1}{10}$.



One counter on the ten frame represents $\frac{1}{10}$ of the stack of 10 counters.

