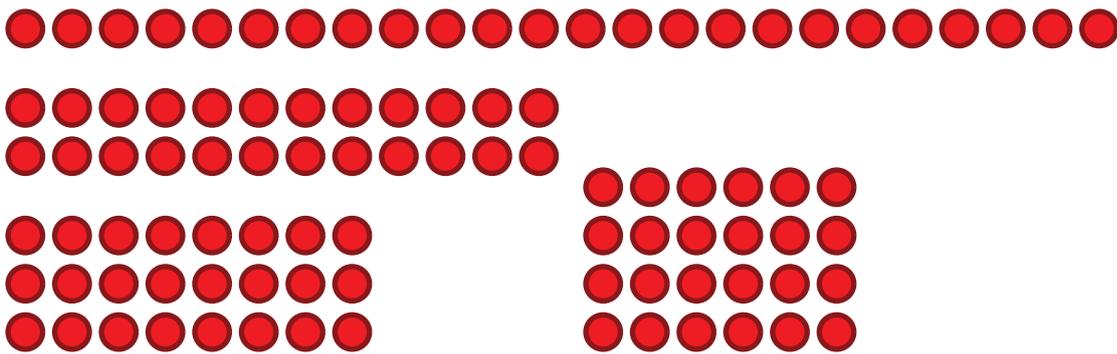


factors

Factors are whole numbers that multiply to make another number.



$$1 \times 24 = 24$$

1 and 24 are **factors** of 24.

$$2 \times 12 = 24$$

2 and 12 are **factors** of 24.

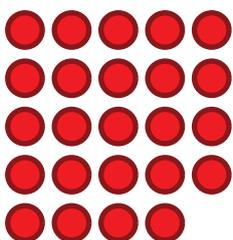
$$3 \times 8 = 24$$

3 and 8 are **factors** of 24.

$$4 \times 6 = 24$$

4 and 6 are **factors** of 24.

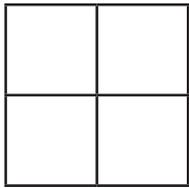
I know that 5 is not a **factor** of 24. When you divide 24 by 5 there is a remainder.



$$24 \div 5 = 4 \text{ remainder } 4$$

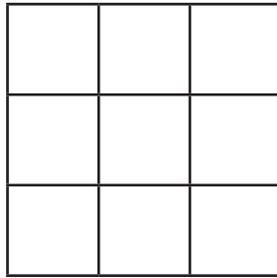
square number

A **square number** is made by multiplying a number by itself.



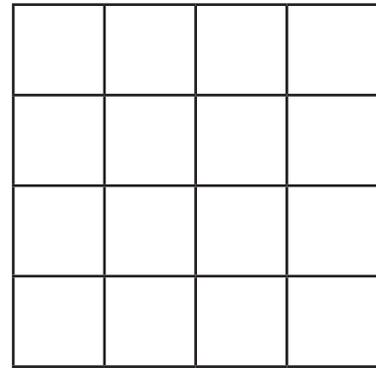
$$2 \times 2 = 2^2 = 4$$

4 is a **square number**.



$$3 \times 3 = 3^2 = 9$$

9 is a **square number**.



$$4 \times 4 = 4^2 = 16$$

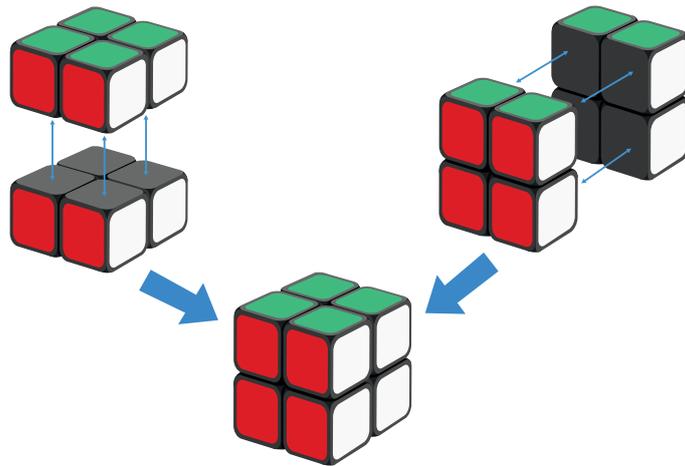
16 is a **square number**.



The small ² means
'multiply by itself'.

cube number

A **cube number** is made by multiplying together three numbers that are all the same.



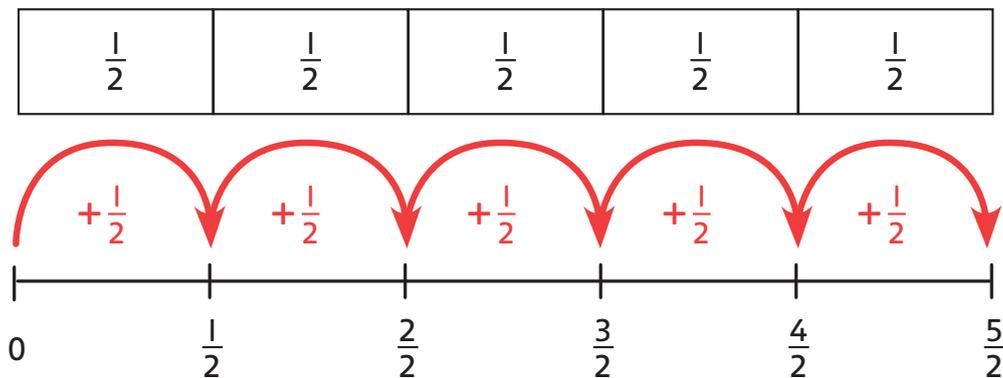
A **cube number** is the number of blocks needed to make a solid cube shape.
2 × 2 in each layer.
2 layers
 $2 \times 2 \times 2 = 8$

8 is a **cube number**.
We can say 2 cubed is equal to 8, or $2^3 = 8$.

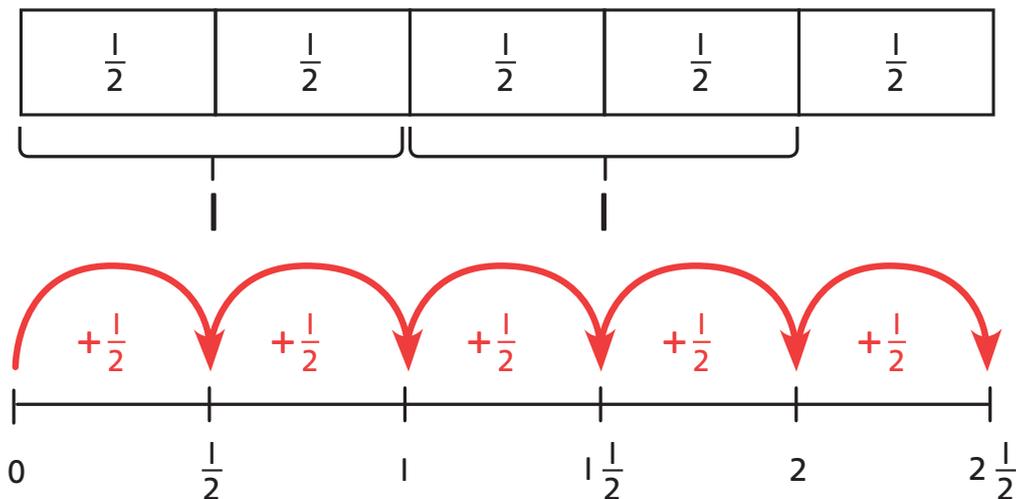


improper fraction

In an **improper fraction**, the numerator is greater than the denominator.



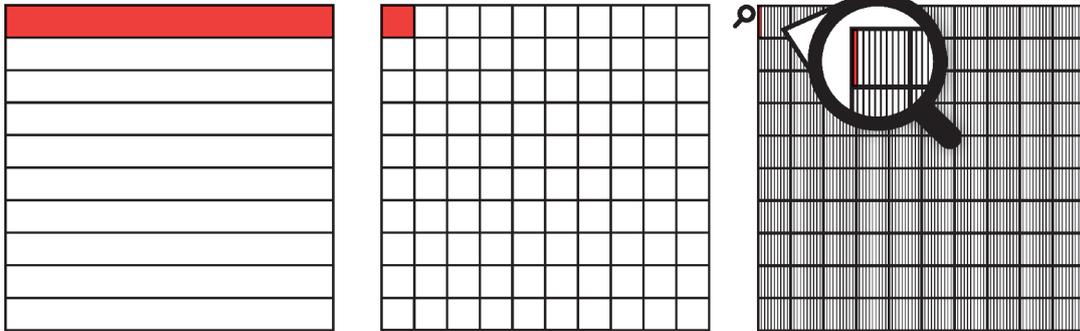
5 halves is $\frac{5}{2}$. This is an **improper fraction**.



$$\frac{5}{2} = 2\frac{1}{2}$$

thousandth

There are 1,000 thousandths in 1 whole.



One **thousandth** is 1 whole split into 1,000 equal parts. It is tiny.

One **thousandth** can be shown as a fraction or a decimal. $\frac{1}{1,000} = 0.001$

0	.	Tth	Hth	Thth
	.	0.1	0.01 0.01	0.001 0.001 0.001 0.001 0.001



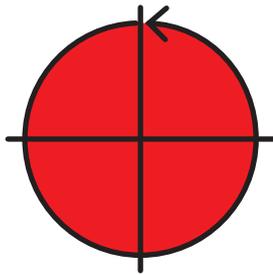
This number is a decimal. It is made from 1 tenth, 2 hundredths and 5 **thousandths**. As a decimal, it is written 0.125.

I think you could also say it is made from 125 **thousandths**.

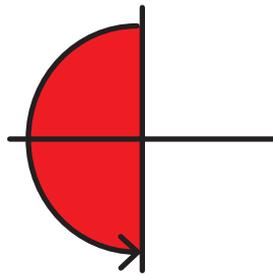


degree ($^{\circ}$)

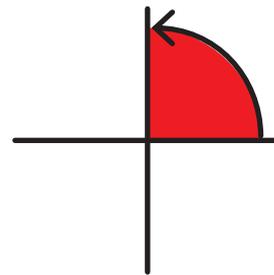
We measure angles and turns in **degrees**.



360°



180°

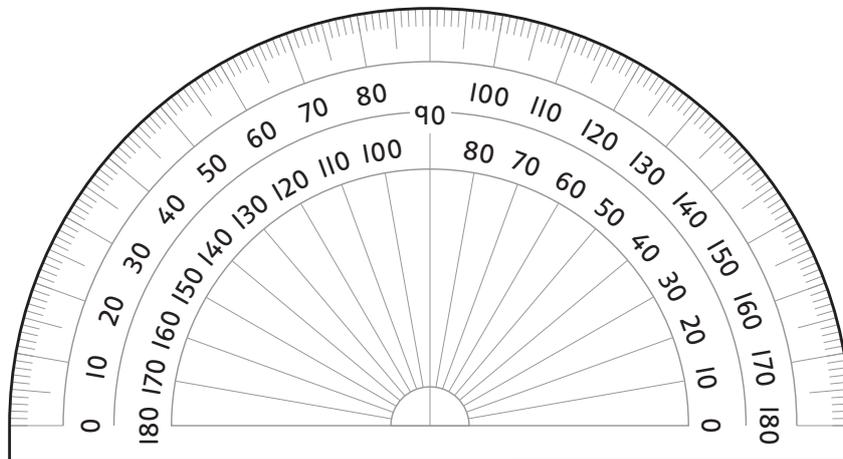


90°

A whole turn is **360 degrees**.

Half a turn is **180 degrees**.

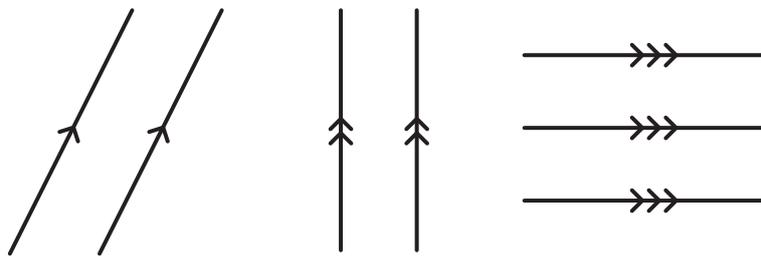
A right angle is **90 degrees**.



I will use a protractor to measure angles accurately.

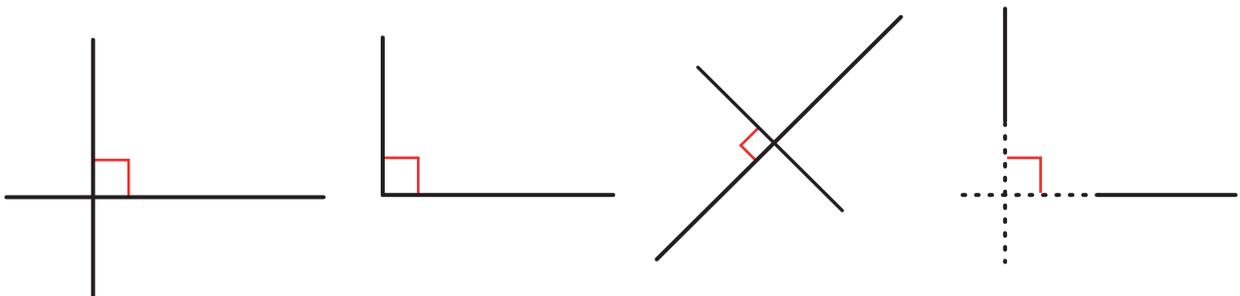
parallel and perpendicular

Parallel lines continue in exactly the same direction as each other.



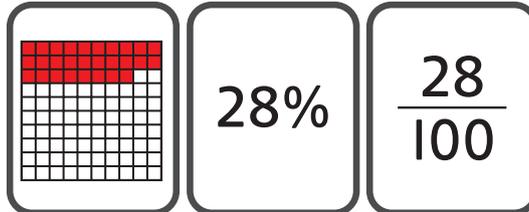
I will show parallel lines with arrow heads.

Perpendicular lines meet at a right angle.



per cent (%)

Per cent means 'out of 100'.

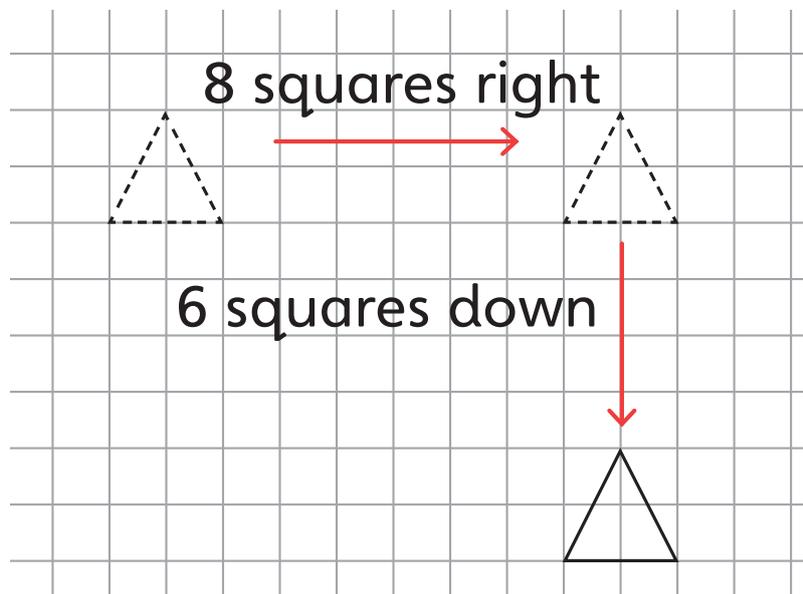


Using percentages is a way of thinking about hundredths and decimals.

Decimal	0.1	0.2	0.4	0.8	0.9	1	0
Tenths	$\frac{1}{10}$	$\frac{2}{10}$	$\frac{4}{10}$	$\frac{8}{10}$	$\frac{9}{10}$	1	0
Hundredths	$\frac{10}{100}$	$\frac{20}{100}$	$\frac{40}{100}$	$\frac{80}{100}$	$\frac{90}{100}$	1	0
Percentage	10%	20%	40%	80%	90%	100%	0

translation

when a shape moves across a grid



The triangle has been **translated** 8 squares right and 6 squares down.

Each vertex has moved 8 squares right and 6 squares down.

