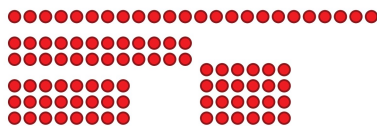


factors

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.



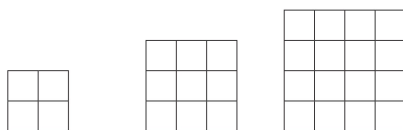
$24 \div 5 = 4$ remainder 4



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square number

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



$2 \times 2 = 2^2 = 4$ $3 \times 3 = 3^2 = 9$ $4 \times 4 = 4^2 = 16$

4 is a **square number**. 9 is a **square number**. 16 is a **square number**.

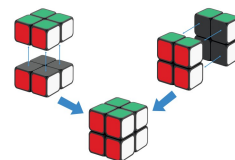


The small ² means 'multiply by itself'.

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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
 $2 \times 2 \times 2 = 8$

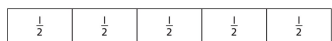
8 is a **cube number**. We can say 2 cubed is equal to 8, or $2^3 = 8$.



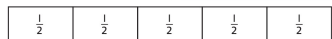
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improper fraction

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



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



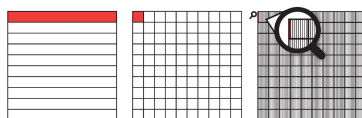
$\frac{5}{2} = 2\frac{1}{2}$



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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. $\frac{1}{1,000} = 0.001$

O	.	Tth	Hth	Thth

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

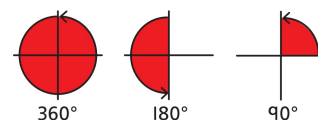
I think you could also say it is made from 125 **thousandths**.



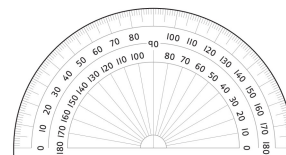
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degree (°)

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



A whole turn is 360 **degrees**.
 Half a turn is 180 **degrees**.
 A right angle is 90 **degrees**.



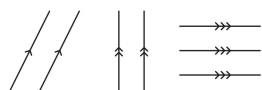
I will use a protractor to measure angles accurately.



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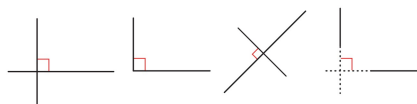
parallel and perpendicular

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



I will show parallel lines with arrow heads.

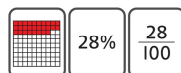
Perpendicular lines meet at a right angle.



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per cent (%)

Per cent means 'out of 100'.



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

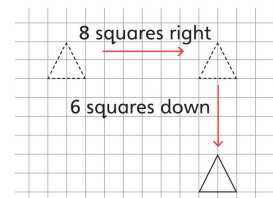
Decimal	0.1	0.2	0.4	0.8	0.9	1	0
Tenths	$\frac{1}{10}$	$\frac{2}{10}$	$\frac{4}{10}$	$\frac{8}{10}$	$\frac{9}{10}$	1	0
Hundredths	$\frac{10}{100}$	$\frac{20}{100}$	$\frac{40}{100}$	$\frac{80}{100}$	$\frac{90}{100}$	1	0
Percentage	10%	20%	40%	80%	90%	100%	0



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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.



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