

multiple

3, 6, 9, 12

These are the first four multiples of 3,
they are all in the 3x table

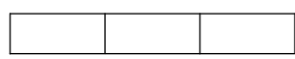


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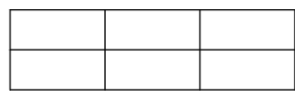
Improvement and
Advisory Service

Picture, model, or diagram

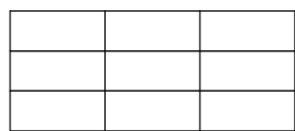
Non-Example



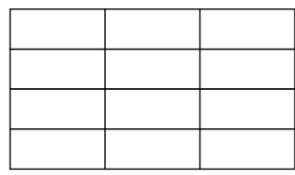
$1 \times 3 = 3$



$2 \times 3 = 6$



$3 \times 3 = 9$



$4 \times 3 = 12$

4, 7, 10, 13

This sequence goes up in 3s but the
numbers are not in the 3x table

Word

Example

numeral

8



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Improvement and
Advisory Service

Picture, model, or diagram

Non-Example



eight

Word

Example

hundreds

842



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County Council

Improvement and
Advisory Service

Picture, model, or diagram

Non-Example

H				T				O	
									
									

17

Word

Example

thousands

2142



Picture, model, or diagram

Non-Example

Th	H	T	O
			

417

negative number

- 5

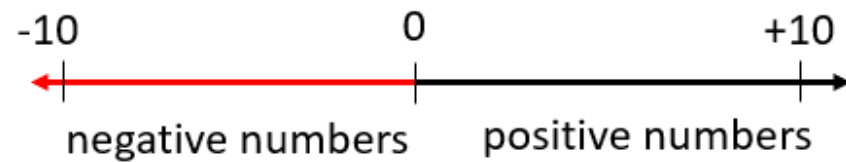


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Picture, model, or diagram

Non-Example



2

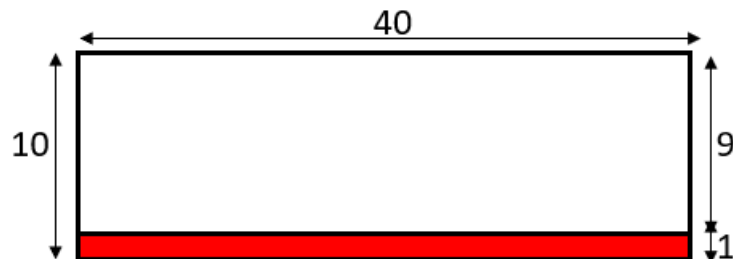
estimate

$$9 \times 40 \approx 10 \times 40$$
$$(=400)$$



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$$9 \times 40 = 360$$

sum

$$342 + 87 = 429$$



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Picture, model, or diagram

Non-Example

429	
342	87

$$342 - 87 = 255$$

total

$$300 + 42 + 87 = 429$$



429		
300	42	87

$$2 \times (342 - 87) = 510$$

difference

$$429 - 342 = 87$$



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Picture, model, or diagram

Non-Example

429	
342	87

$$342 + 87 = 429$$

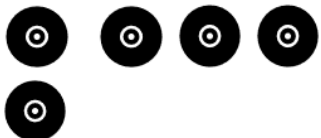
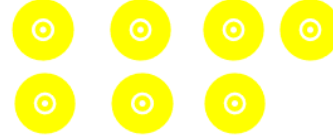
columnar method

$$\begin{array}{r} 572+ \\ \underline{125} \\ 697 \end{array}$$



Picture, model, or diagram

Non-Example

H	T	O
		
		
6	9	7

$$572 + 125 = 697$$

operation

$$17 + 65 = 82$$

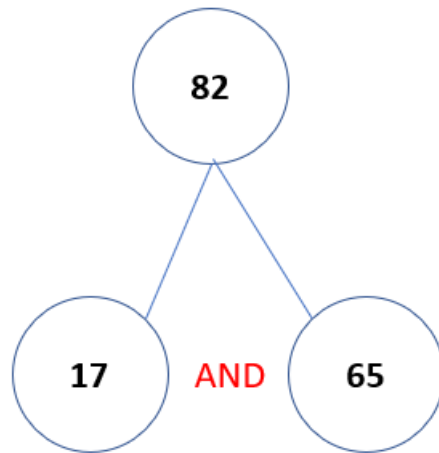


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Picture, model, or diagram

Non-Example



17, 42, 85

multiplication table

- 1 x 8 = 8
- 2 x 8 = 16
- 3 x 8 = 24
- 4 x 8 = 32
- 5 x 8 = 40
- 6 x 8 = 48
- 7 x 8 = 56
- 8 x 8 = 64
- 9 x 8 = 72
- 10 x 8 = 80
- 11 x 8 = 88
- 12 x 8 = 96



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- 0 + 10=10
- 1 + 9 = 10
- 2 + 8 = 10
- 3 + 7 = 10
- 4 + 6 = 10
- 5 + 5 = 10

related fact

$$3 \times 4 = 12$$

$$12 \div 4 = 3$$



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Picture, model, or diagram

Non-Example

12			
3	3	3	3

$$3 \times 4 = 12$$
$$97 + 0.6 = 97.6$$

factor pairs

$$3 \times 4 = 12$$



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Picture, model, or diagram

Non-Example

12			
3	3	3	3
4	4	4	

$$3 + 4 = 7$$

commutative

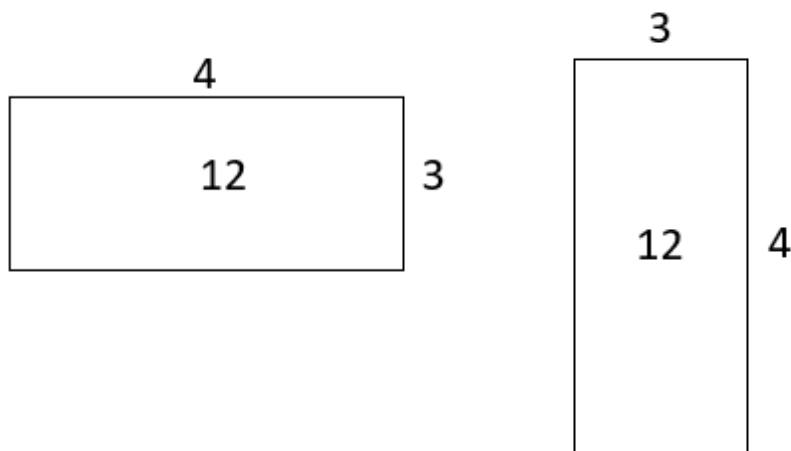
$$3 \times 4 = 12$$

$$4 \times 3 = 12$$



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$$3 \div 4 = \frac{3}{4}$$

$$4 \div 3 = 1 \frac{1}{3}$$

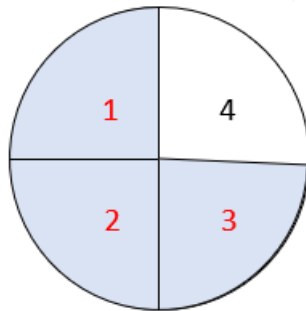
numerator

3
—
4



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three equal pieces out of four

0.75

denominator

3
—
4

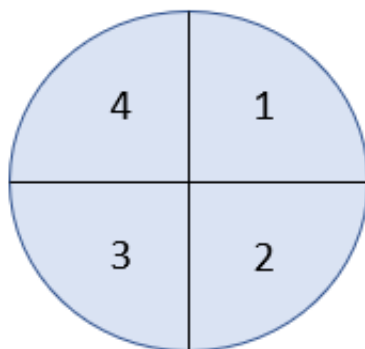


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Picture, model, or diagram

Non-Example



the whole is **four** equal pieces

0.75

equivalent
(fraction)

$$\frac{3}{4} = \frac{6}{8}$$



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$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$			
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$		

$$\frac{3}{4} \neq \frac{3}{8}$$

decimal place

3.1

The 1 is in the first decimal place



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Picture, model, or diagram

Non-Example

o	t
	
	
	

310

Word

Example

tenth

3.1



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Picture, model, or diagram

Non-Example

o	•	t
		
		
		

310

hundredth

3.01



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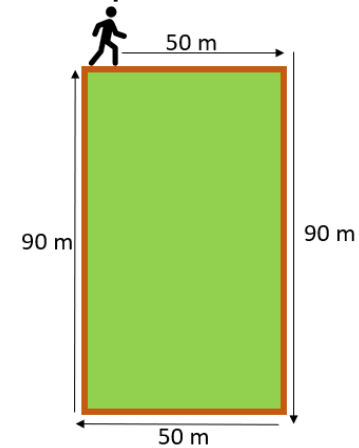
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o	t	h
		

310

perimeter

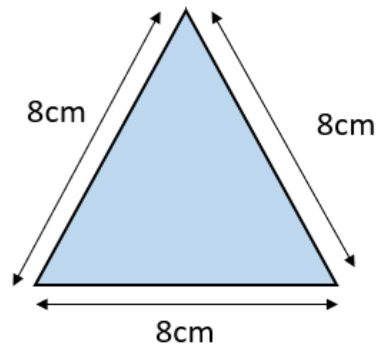
Our rectangular playing field is 90 metres long and 50 metres wide. The distance around the edge is 280 metres, this is the perimeter.



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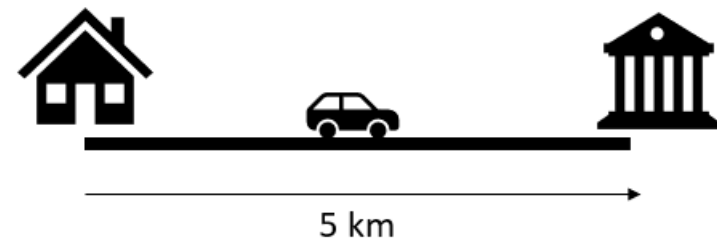
Picture, model, or diagram



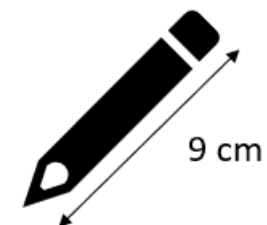
The perimeter of the equilateral triangle is $8\text{cm} + 8\text{cm} + 8\text{cm} = 24\text{cm}$

Non-Example

The distance from my house to the library is 5 kilometres.



centimetre



The pencil is 9cm long



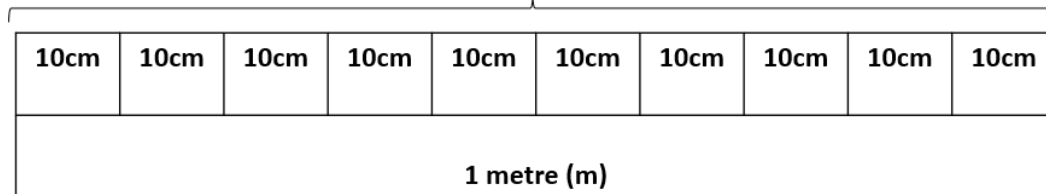
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Picture, model, or diagram

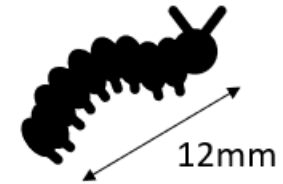
Non-Example

100cm = 1m



The apple has a mass of 10 grams

millimetre (mm)



The caterpillar is 12mm long



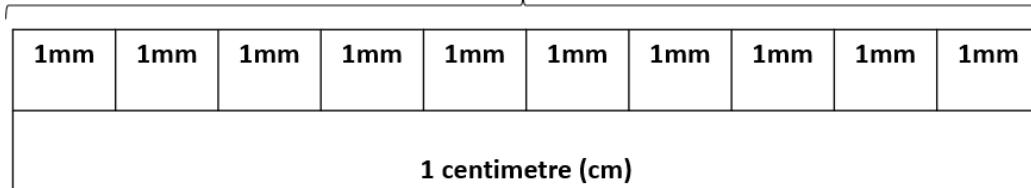
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Picture, model, or diagram

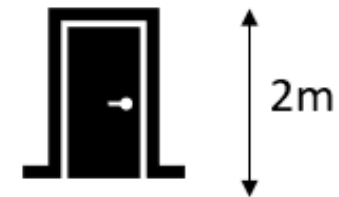
Non-Example

10mm = 1cm



The apple has a mass of 10 grams

metre (m)



This door is 2 metres high

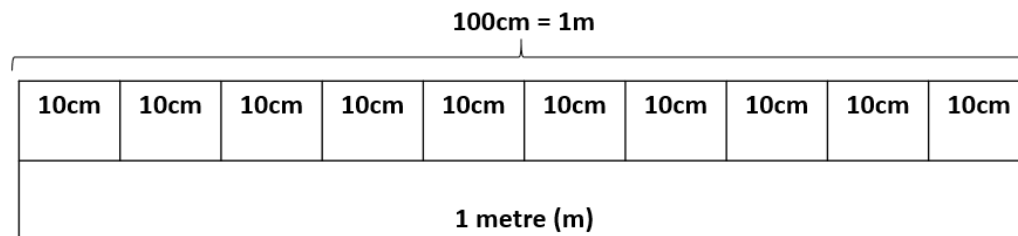


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Picture, model, or diagram

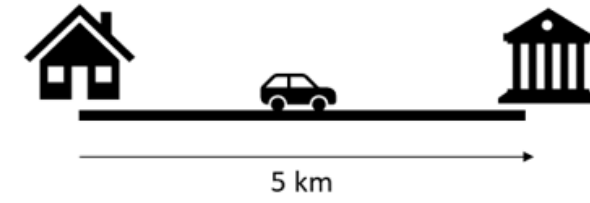
Non-Example



The horse has a mass of 550 kilograms

kilometre (km)

The distance from my house to the library is 5 kilometres



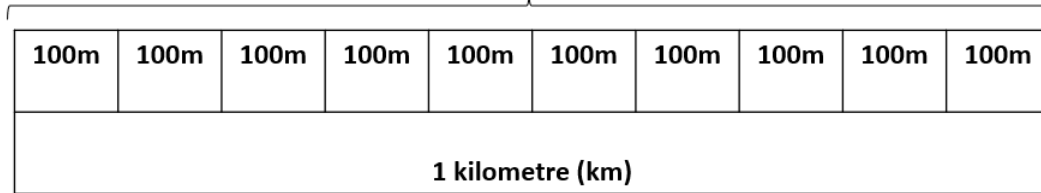
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Picture, model, or diagram

Non-Example

1000m = 1km



The horse has a mass of 550 kilograms

change (money)

I have £5
I spend £3
I receive £2 **change**



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Advisory Service

Picture, model, or diagram

Non-Example



I have £5
I receive another £3
I now have £8

gram (g)

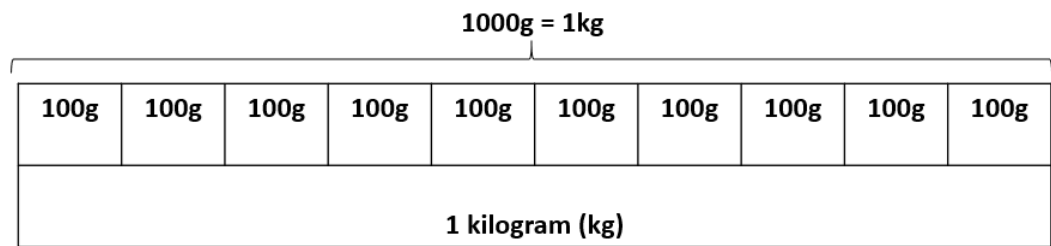


The apple has a mass of 10 grams



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This bottle has a capacity of 500 millilitres

kilogram (kg)



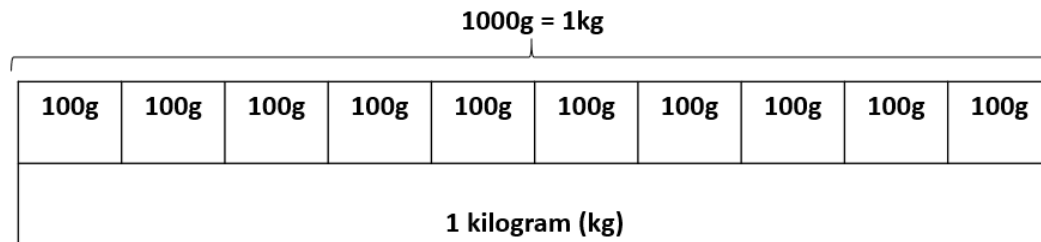
The horse has a mass of 550 kilograms



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Picture, model, or diagram



Non-Example

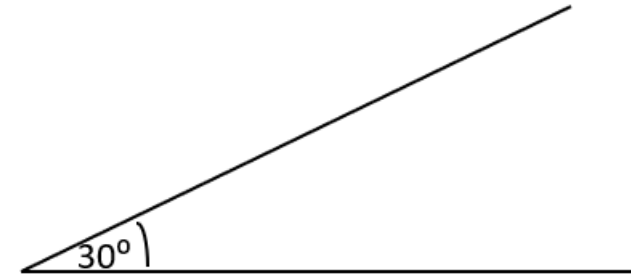


This bottle has a capacity of 500 millilitres

Word

Example

angle

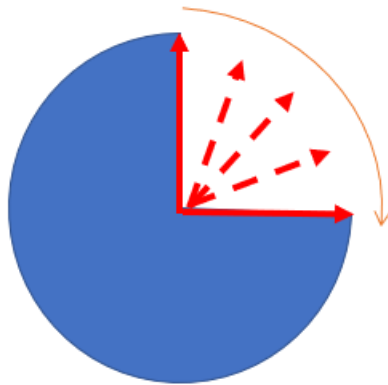


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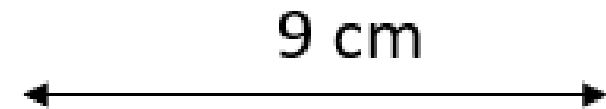
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Picture, model, or diagram

Non-Example



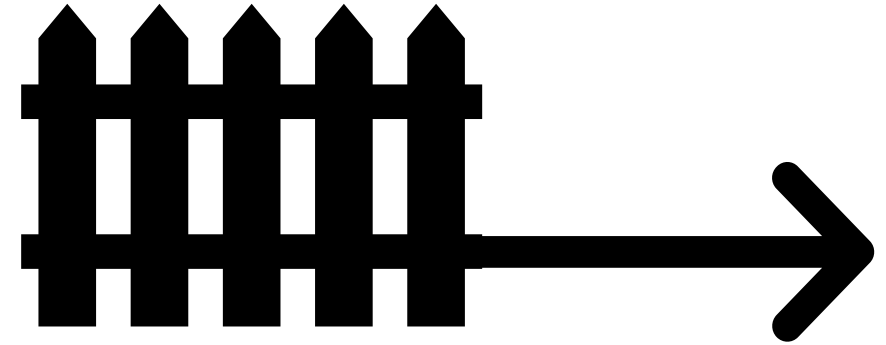
The red arrow turns through an **angle** of 90°



Word

Example

horizontal

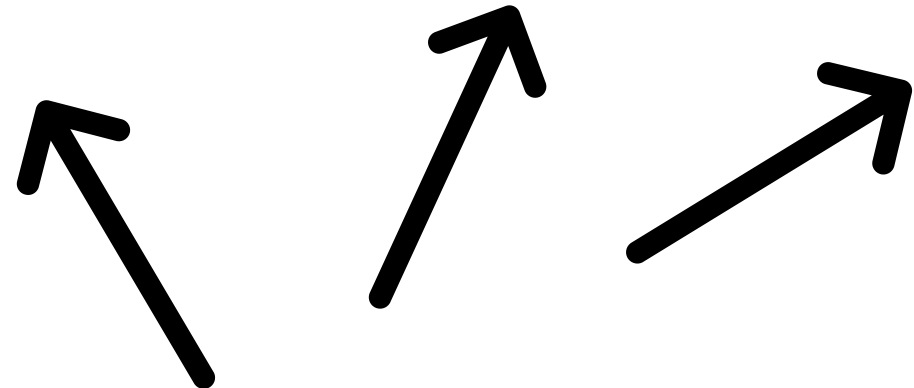
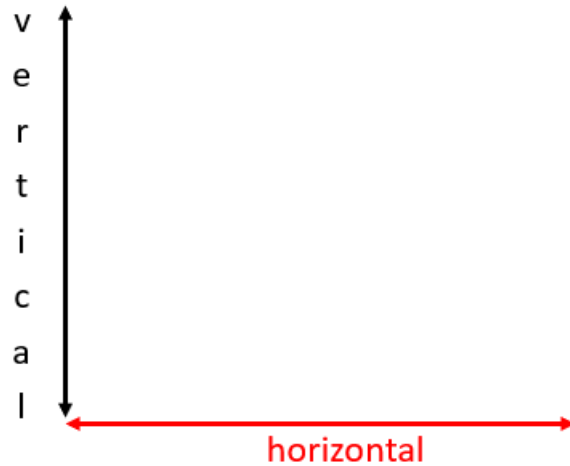


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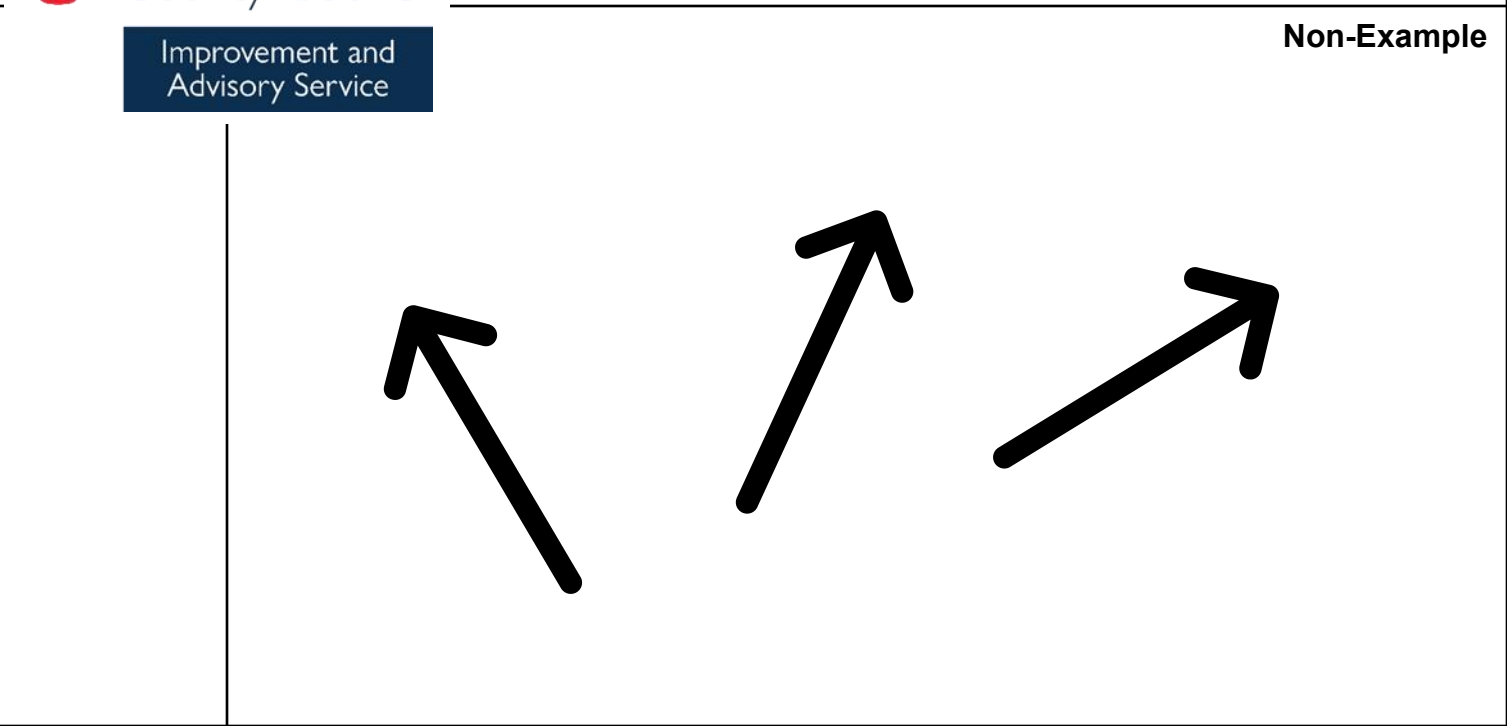
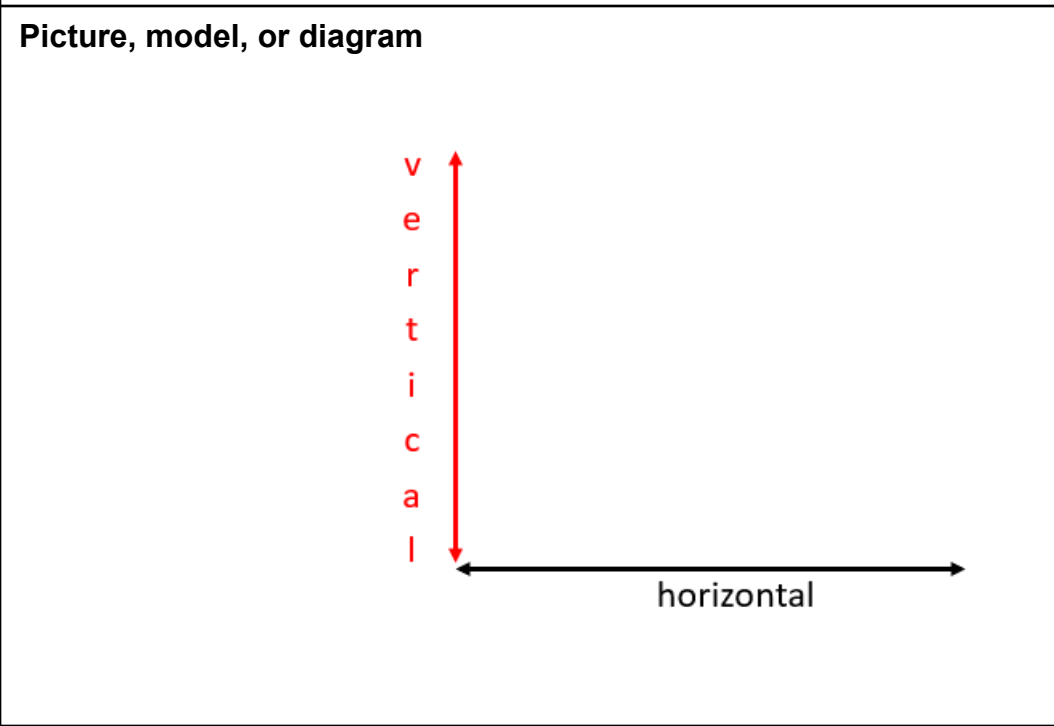
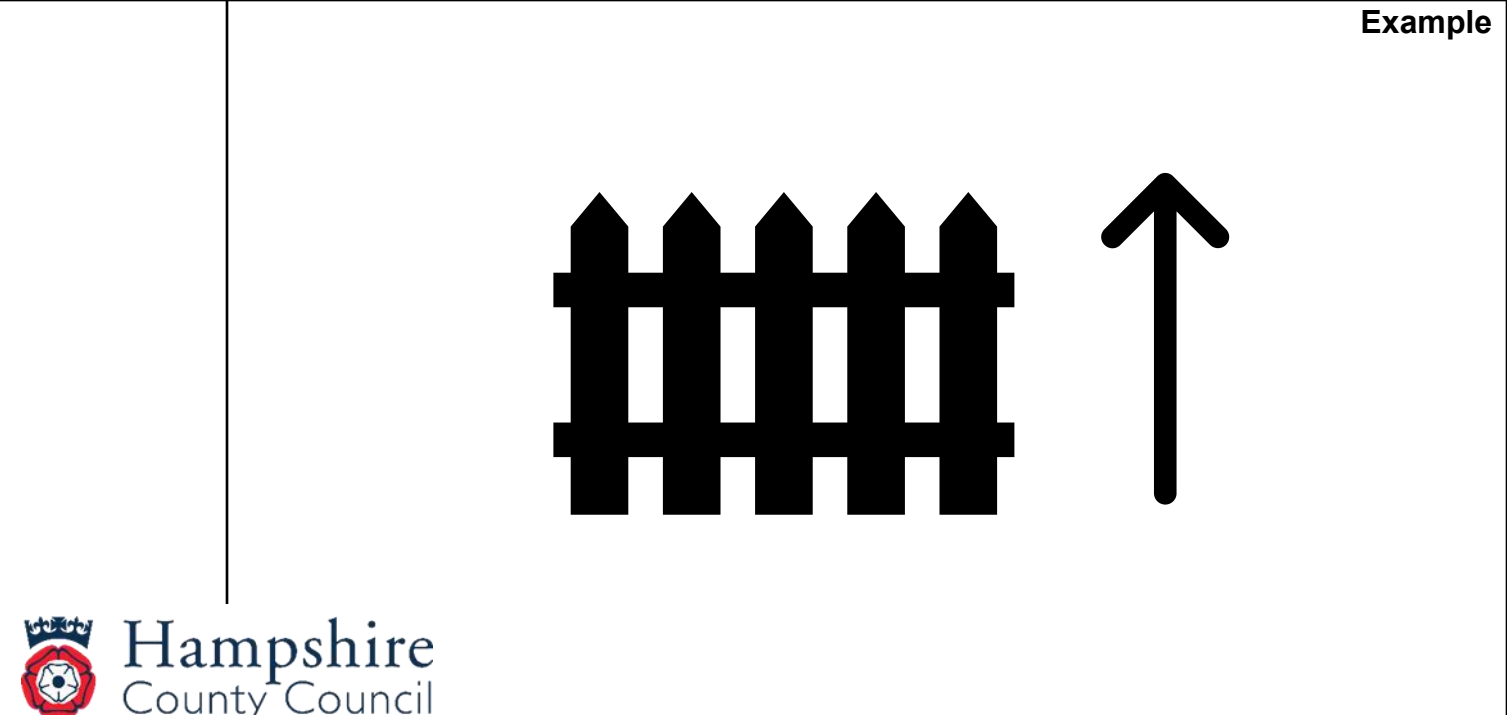
Picture, model, or diagram

Non-Example

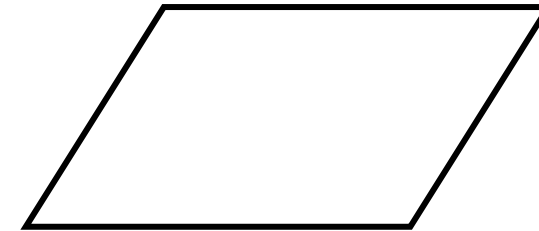


Word

vertical



parallel



A parallelogram has two pairs of opposite parallel sides



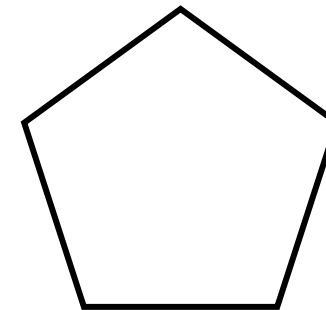
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Picture, model, or diagram

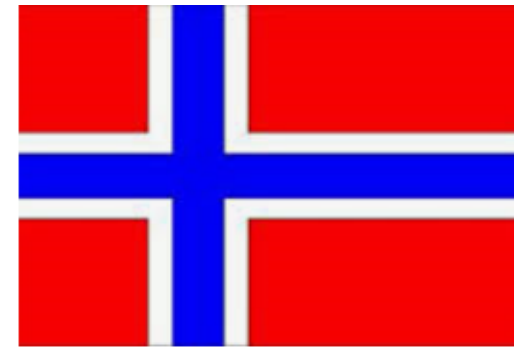


Non-Example



This regular pentagon has no parallel sides

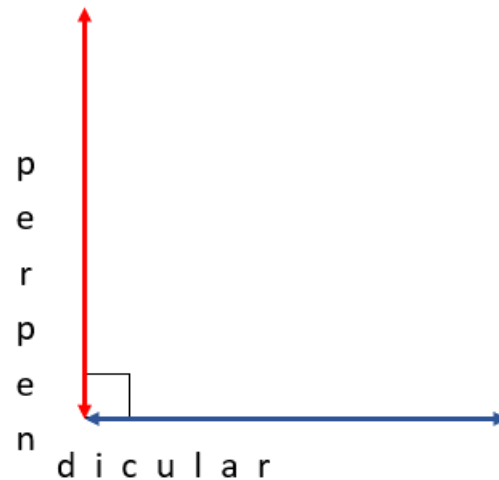
perpendicular



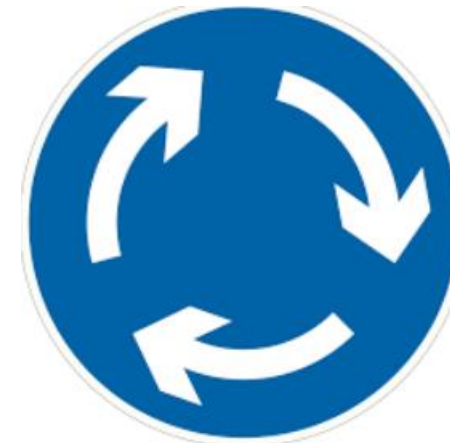
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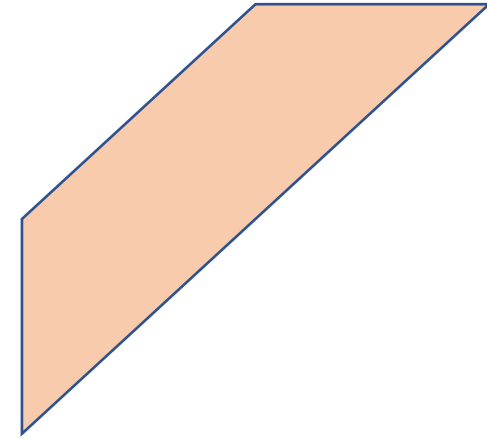
Picture, model, or diagram



Non-Example



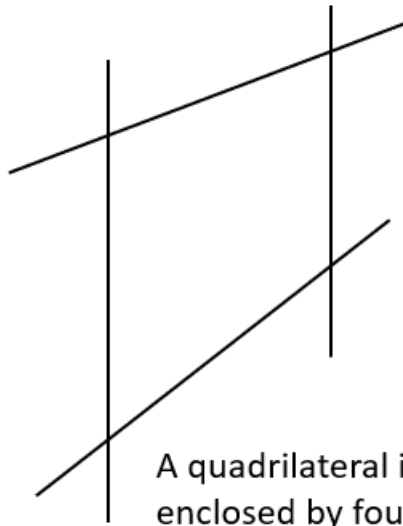
quadrilateral



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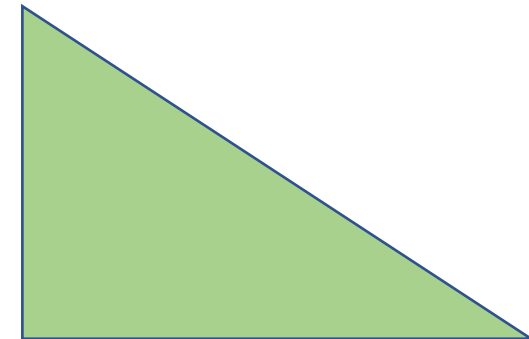
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Picture, model, or diagram



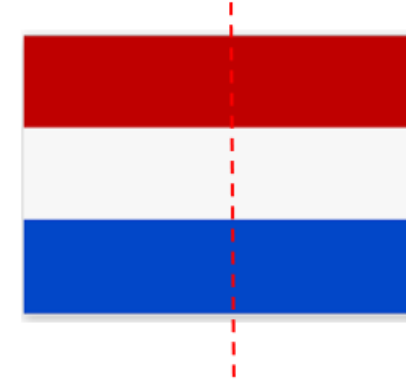
A quadrilateral is a 2D-shape
enclosed by four straight edges

Non-Example



symmetry

(line)



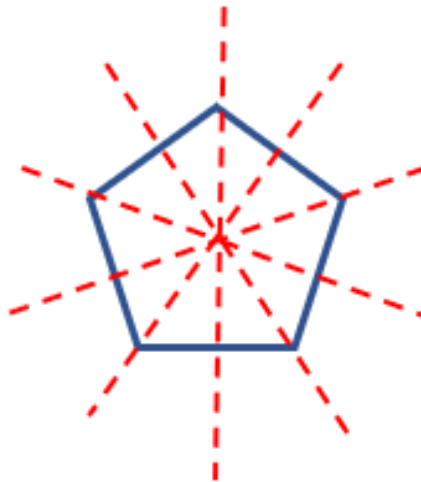
The flag of the Netherlands has one line of symmetry



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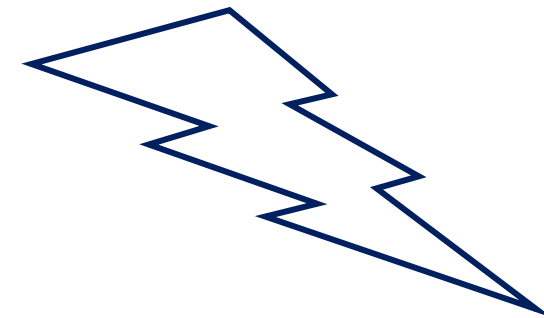
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Picture, model, or diagram



A regular pentagon has five lines of symmetry

Non-Example



coordinate

(3,2)

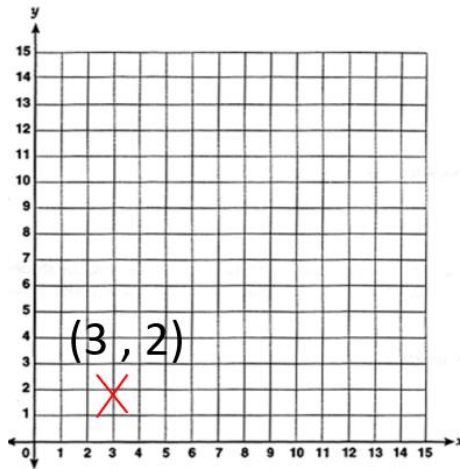


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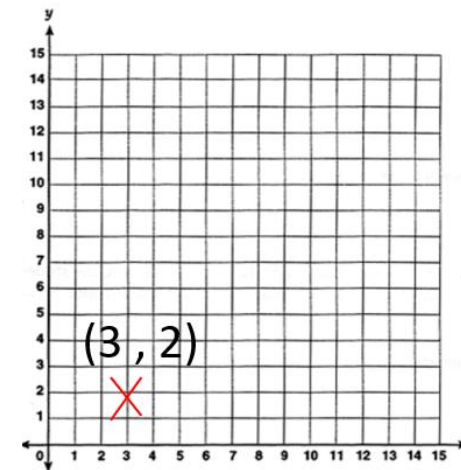
Picture, model, or diagram

Non-Example



$\begin{pmatrix} 3 \\ 2 \end{pmatrix}$

quadrant



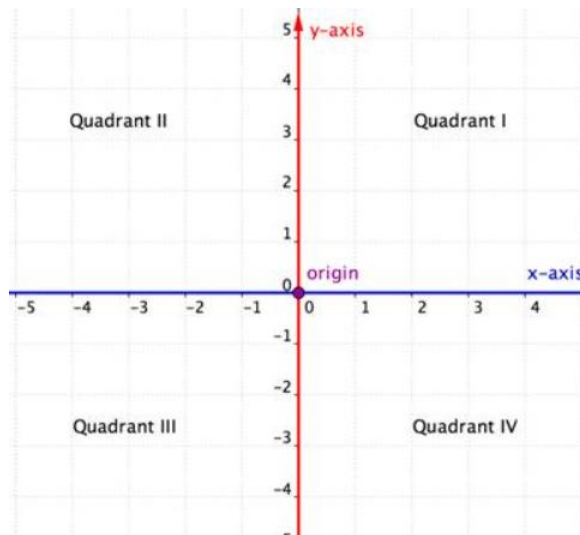
The coordinate point (3,2) is plotted in the first quadrant



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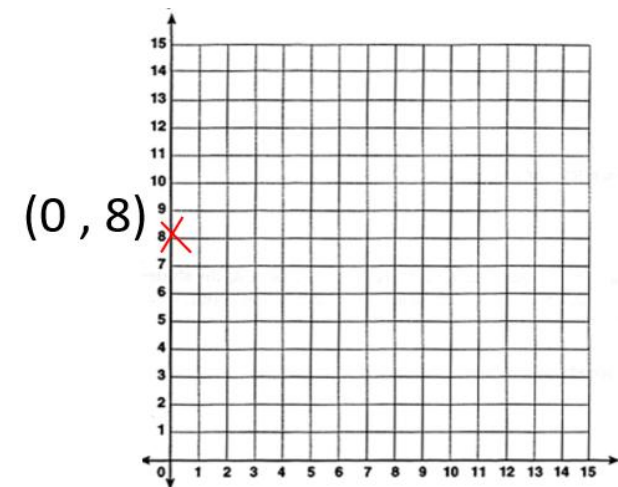
Improvement and
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Picture, model, or diagram



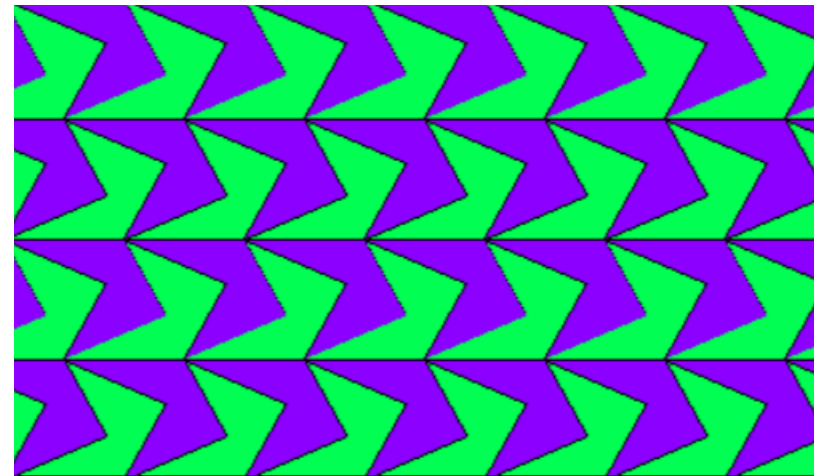
There are four quadrants

Non-Example



The coordinate point (0,8) is plotted on the y-axis,
not in a quadrant

translation (slide)



Each row shows the green and the purple shapes 'sliding'

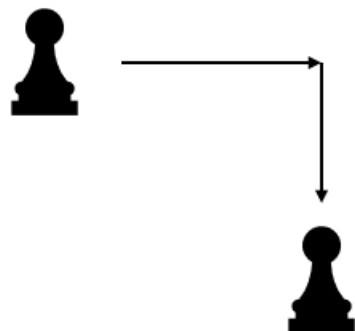


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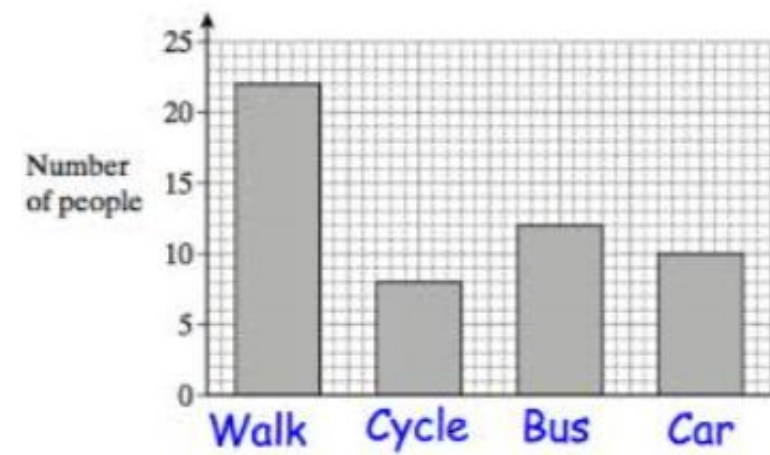
Picture, model, or diagram

Non-Example



This tile is created using reflection

bar chart

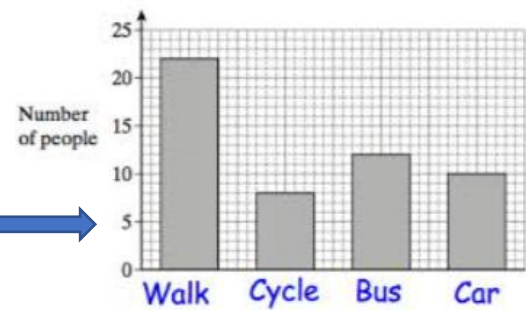
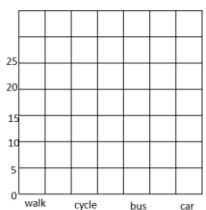


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Picture, model, or diagram

Travel to school	Frequency
Walk	22
Cycle	8
Bus	12
Car	10
<i>Total</i>	<i>50</i>

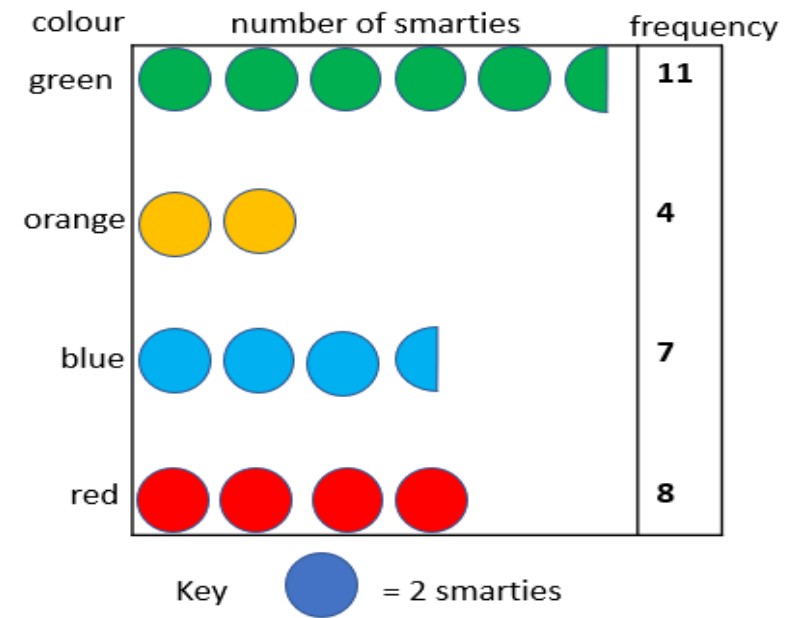


Non-Example



This is a block diagram

pictogram



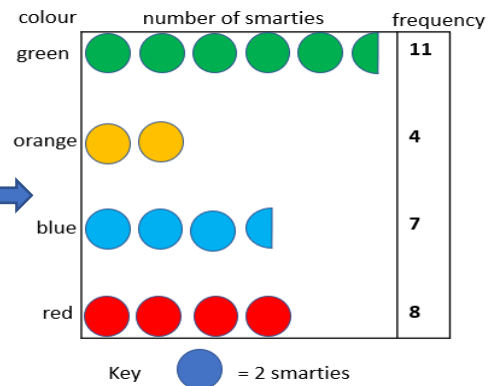
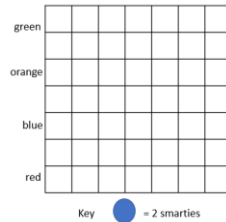
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Picture, model, or diagram

Non-Example

Colour of smartie	Frequency
Green	11
Orange	4
Blue	7
Red	8
Total	30



This is a block diagram

discrete data

(countable data)

- Number of eggs in nests
- Number of smarties in a tube
- Number of goals in a season

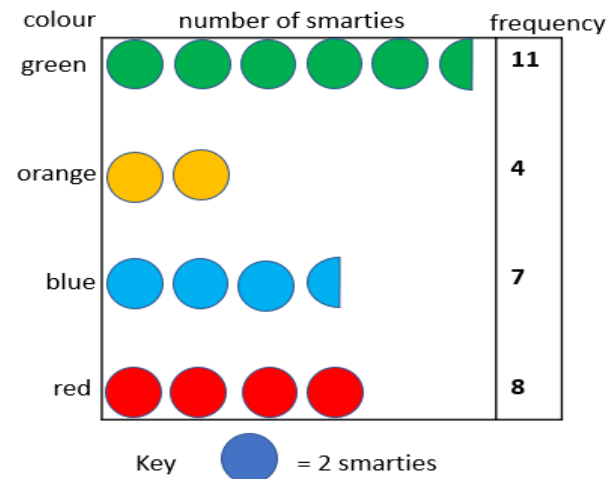


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Picture, model, or diagram

Non-Example



- Water temperature
- Speed on a journey
- Time in a cycle race

continuous data (measurable data)

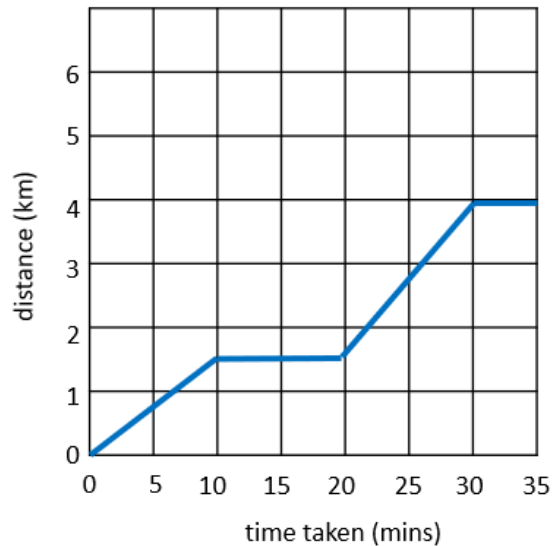
- Water temperature
- Speed on a journey
- Time in a cycle race



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Picture, model, or diagram



Non-Example

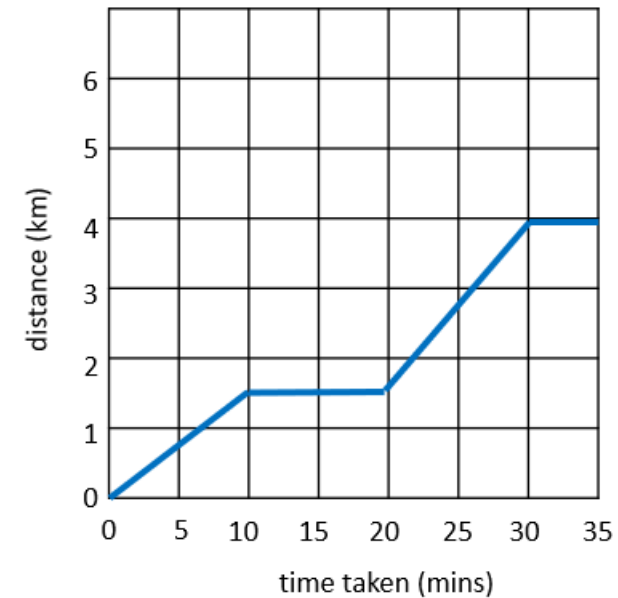
- Number of eggs in nests
- Number of 'likes' on Facebook
- Number of goals in a season

time graph



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County Council

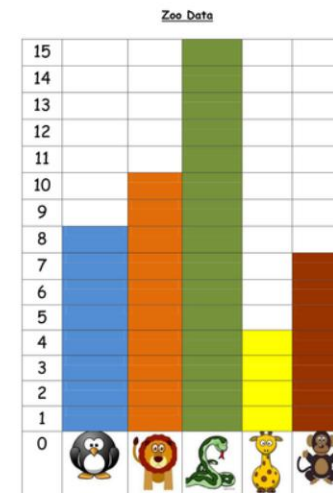
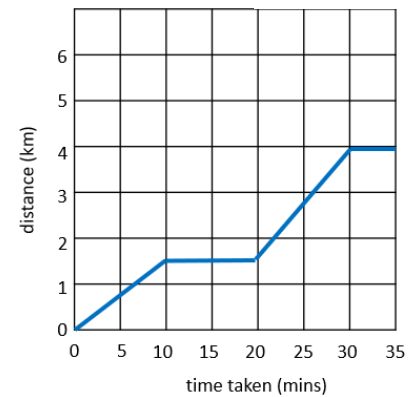
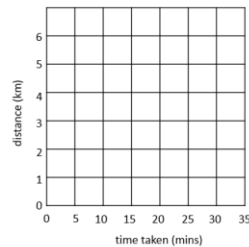
Improvement and
Advisory Service



Picture, model, or diagram

Non-Example

Time taken (mins)	Distance (km)
0-10	1.5
10-20	1.5
20-30	4
30-40	4
over 40	4



Word	Example
Picture, model, or diagram	Non-Example



Word	Example
Picture, model, or diagram	Non-Example

