

4

3

4

5

 $\frac{2}{5}$

 $\frac{3}{5}$

 $(\frac{2}{10})$

 $(\frac{4}{10})$

 $\frac{6}{10}$

0.75

0.2

0.4

0.6

75%

20%

40%

60%

10

3

10

7

10

9

10

1

3

0.3

0.7

0.9

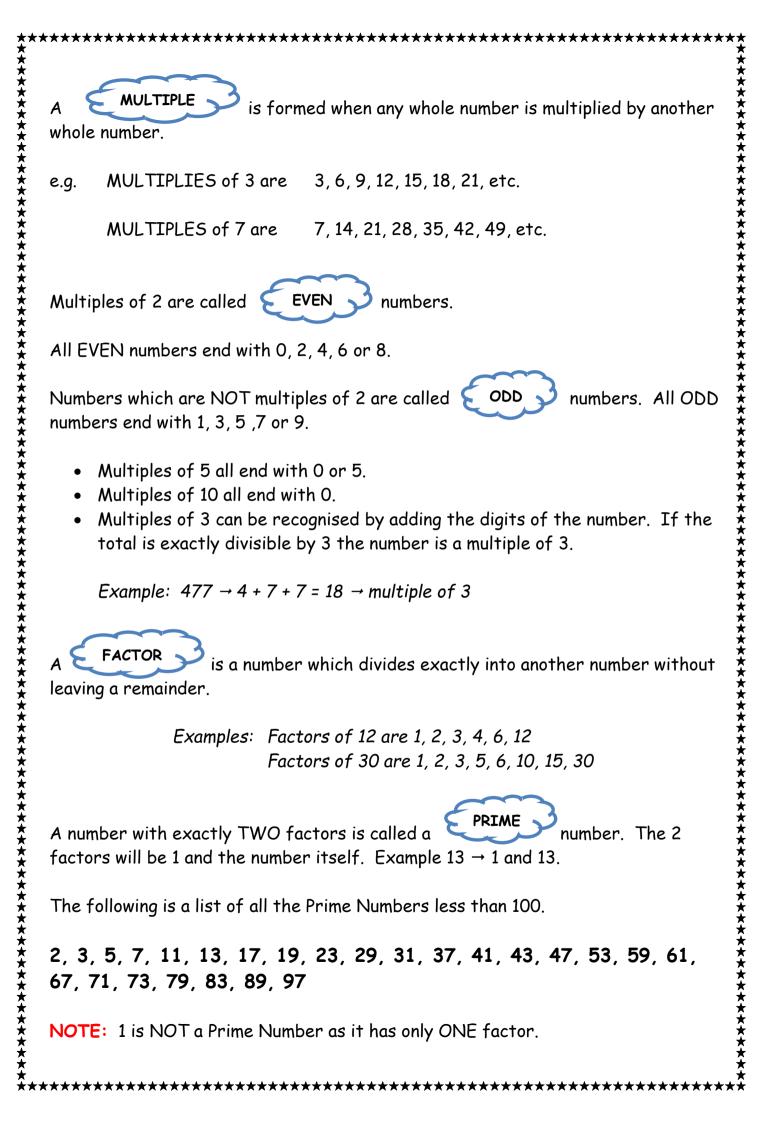
0.333

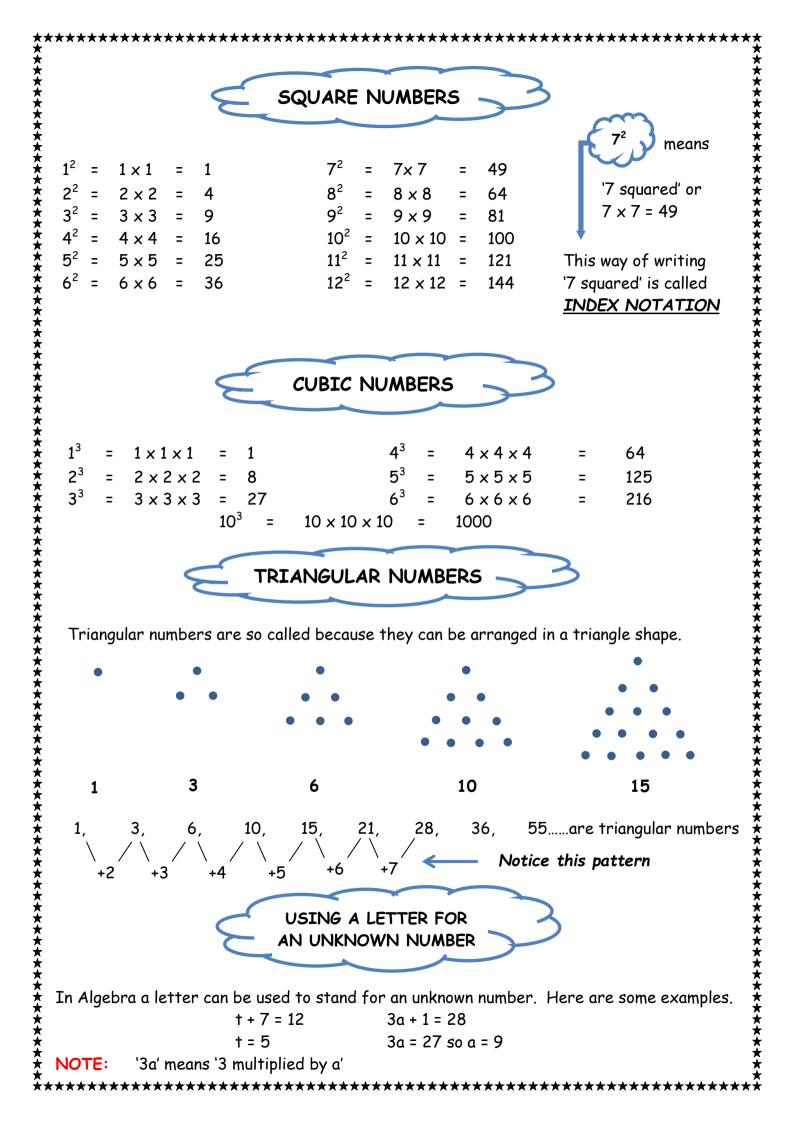
30%

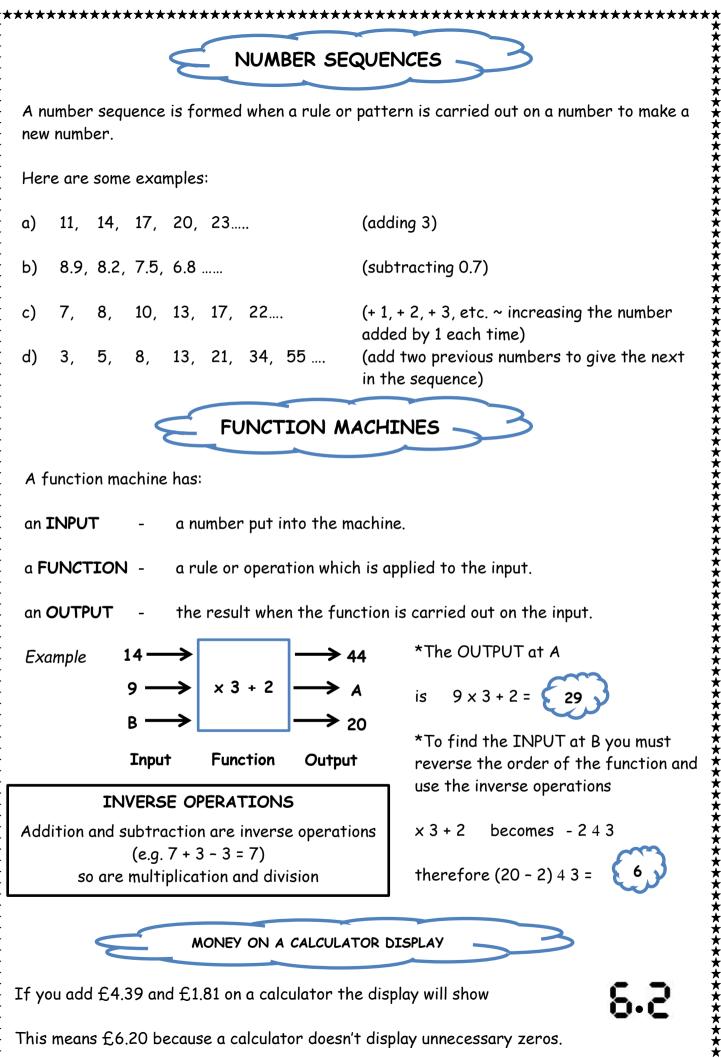
70%

90%

 $33\frac{1}{3}\%$











			24 Hour c		
•		•	-	its are always used. Only 1 m (after mid-day).	
The following	is a list of all "o	oʻclock" times i	n both systems		
12 Hour	24 Hour	12 Hour	24 Hour	* Although midnight c	
Midnight 12.00 am	0000 Or 2400	Noon 12.00 pm	1200 hrs	written two different in the 24 hour system	
1.00 am	0100 hrs	1.00 pm	1300 hrs	2400 hrs and 0000 hr	
2.00 am	0200 hrs	2.00 pm	1400 hrs	times just after midn can only be written in	
3.00 am	0300 hrs	3.00 pm	1500 hrs	way.	
4.00 am	0400 hrs	4.00 pm	1600 hrs	e.g. 1 minutes past	
5.00 am	0500 hrs	5.00 pm	1700 hrs	midnight	
6.00 am	0600 hrs	6.00 pm	1800 hrs	0001 hrs	
7.00 am	0700 hrs	7.00 pm	1900 hrs	2401 hrs does not exi	
8.00 am	0800 hrs	8.00 pm	2000 hrs		
9.00 am	0900 hrs	9.00 pm	2100 hrs		
10.00 am	1000 hrs	10.00 pm	2200 hrs		
11.00 am	1100 hrs	11.00 pm	2300 hrs		
60 seconds 60 minutes 24 hours 7 days	s = 1 hour	•	12 mo 365 d 366 d	nths = 1 year lays = 1 year lays = 1 leap year ars = 1 decade	



12 months	=	1 year
365 days	=	1 year
366 days	=	1 leap ye
10 years	=	1 decade
100 years	=	1 centur



The following rhyme will help you remember the number of days in each month of the year.

<u>SEASONS</u>

Thirty days has September April, June and November All the rest have thirty-one Except February alone Which has twenty-eight days clear And twenty-nine in each leap year.

A LEAP YEAR occurs every FOUR years.

2008, 2012, 2016 and 2020 are all leap years.

To find out if a year is a leap year, divide the last two digits of the year by 4. If there is no remainder then it is a leap year.



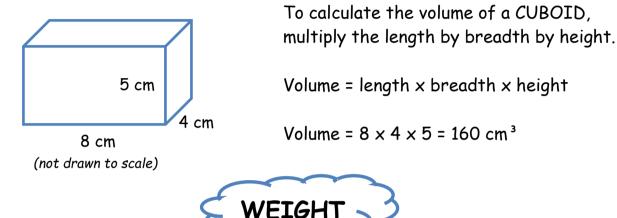
CAPACITY is the amount of space in a hollow container such as a bottle or bin. The standard unit for measuring capacity is the LITRE.

1	litre	=	1000 ml	$\frac{3}{4}$	litre	=	750 ml
$\frac{1}{2}$	litre	=	500 ml	$\frac{1}{5}$	litre	=	200 ml
$\frac{1}{4}$	litre	=	250 ml	$\frac{1}{10}$	litre	=	100 ml

- A standard size dinks can holds 330 ml.
- A medicine spoon holds 5 ml.

VOLUME is the amount of space taken up by a solid object.

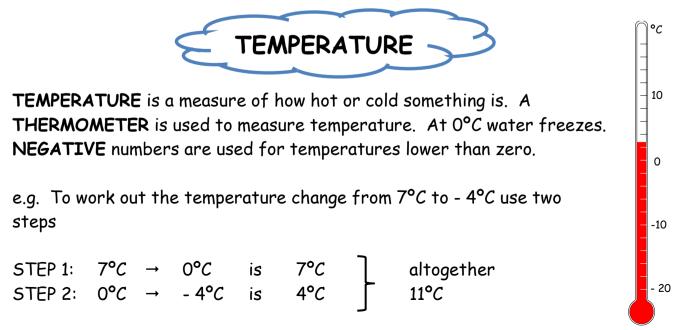
The volume of a solid is measured in CUBIC CENTIMETRES **cm³** or CUBIC METRES **m³**.



The weight of an object is measured in **GRAMS** or **KILOGRAMS**.

1 kg	=	1000 g	$\frac{1}{4}$	kg =	250 g
$\frac{1}{2}$ kg	=	500 g	$\frac{3}{4}$	kg =	750 g

- A new born baby would weigh about 3 or 4 kg.
- A 10 -11 year old child would weigh 30 45 kg.
- A large adult would weigh about 100 kg.





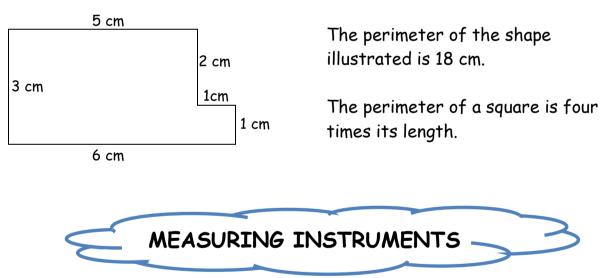
There are four metric units of length commonly used:

MILLIMETRES, CENTRIMETRES, METRES AND KILOMETRES

10 mm	=	1 cm
100 cm	=	1 m
1000 mm	=	1 m
1000 m	=	1 km

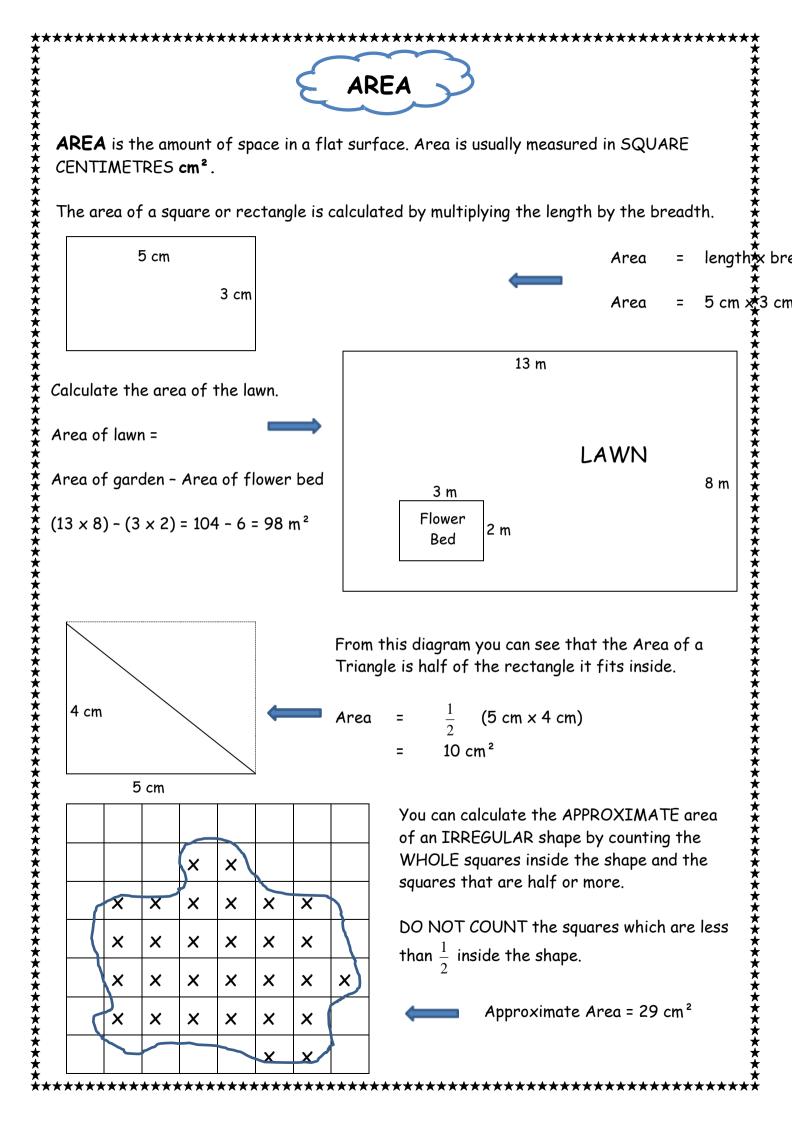
- A standard ruler is 30 cm long
- Classroom door is approximately 2m high
- Average 10 11 year old is 130 150 cm tall
- It would take about 10 12 minutes to walk 1 kilometre
- An Olympic athlete can run 100 metres in 10 seconds

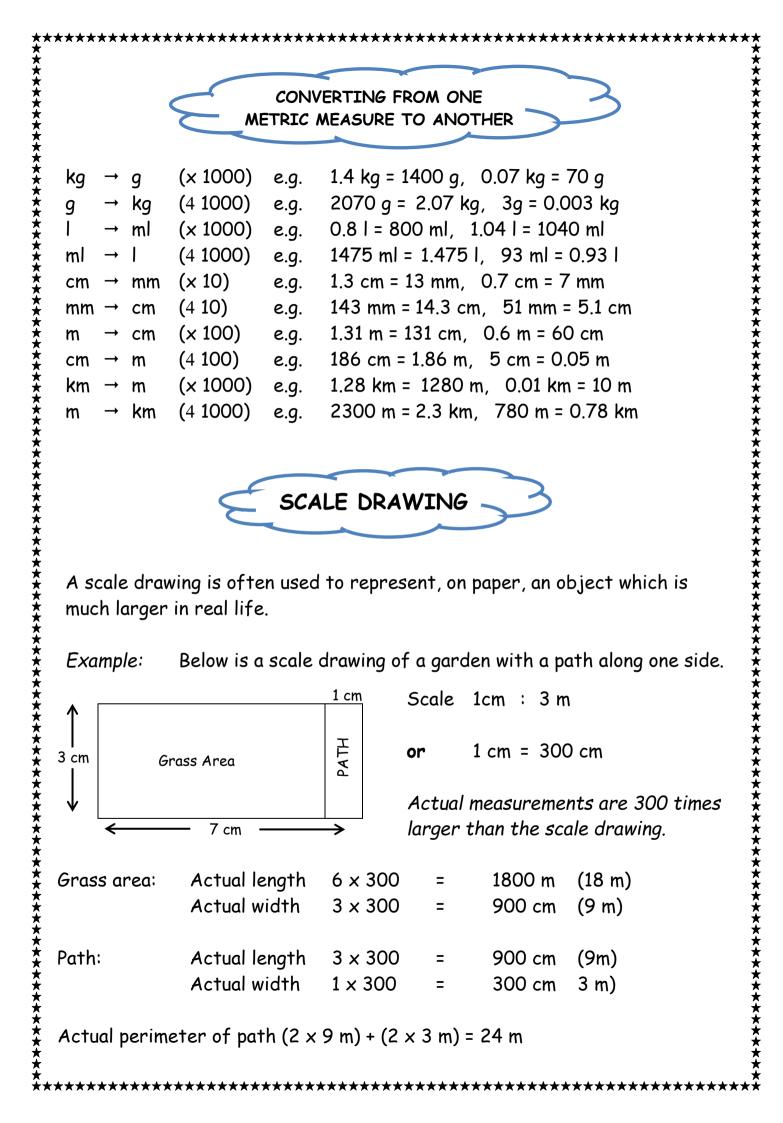
The distance round a shape is called the **PERIMETER**

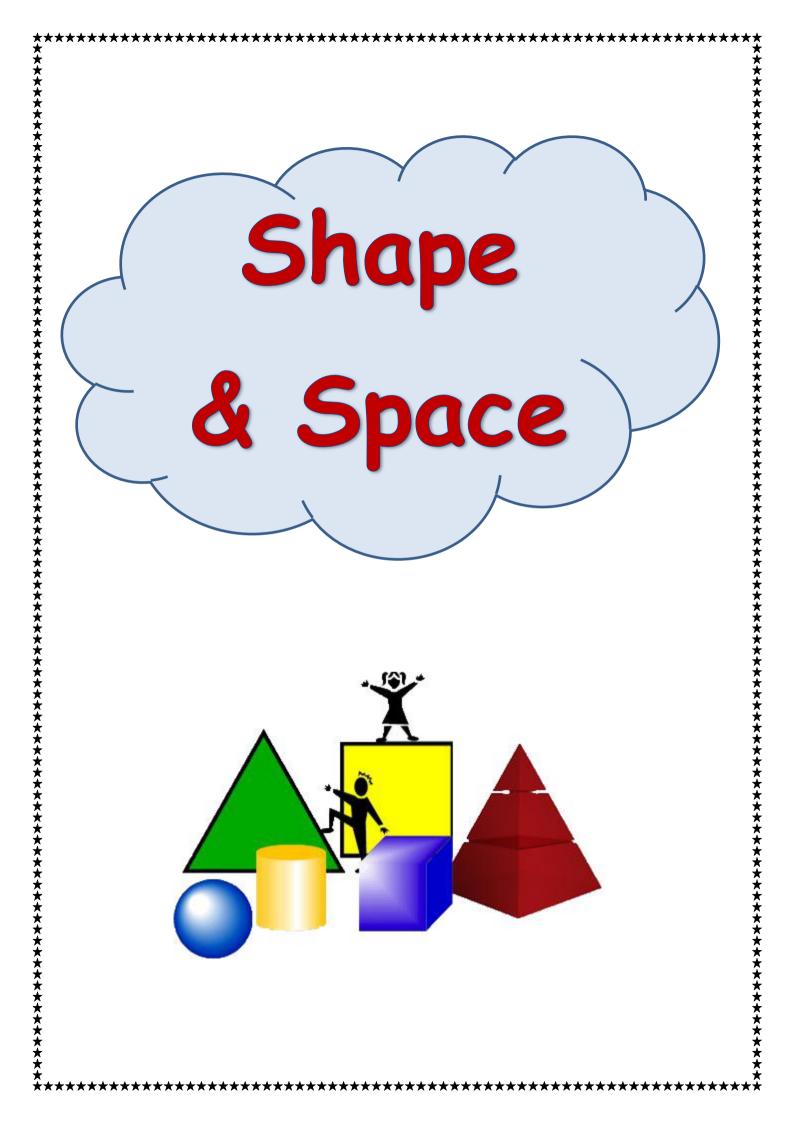


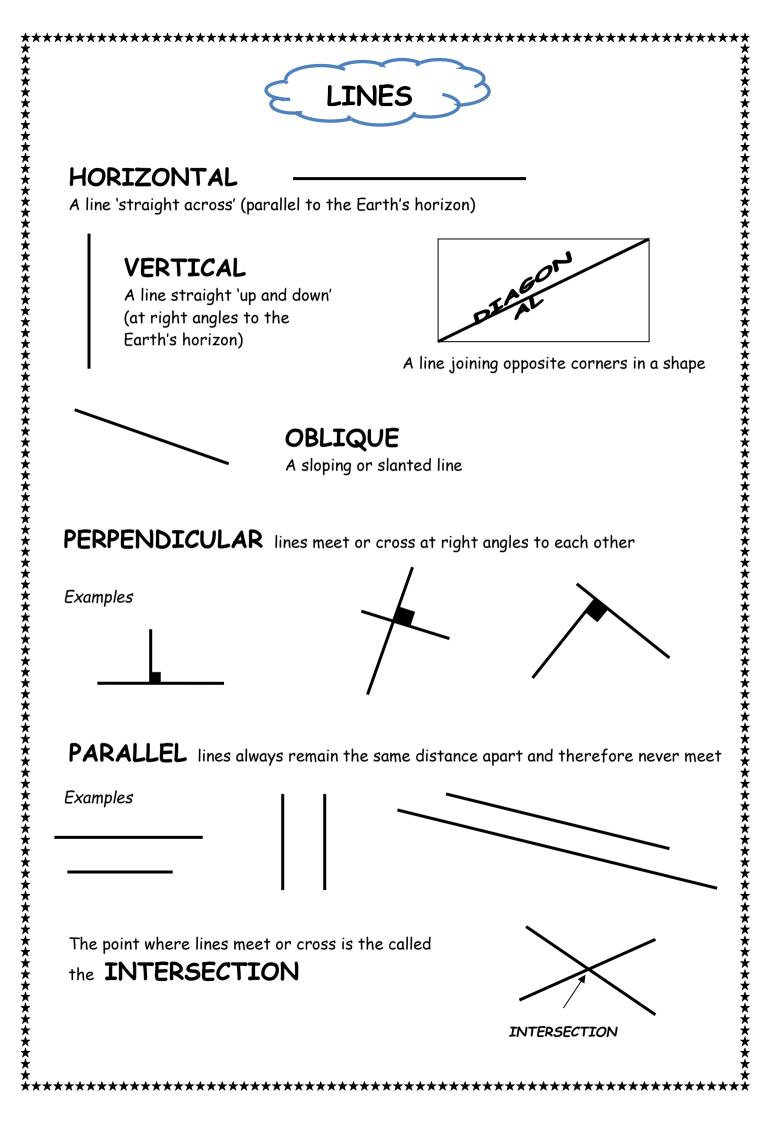
We use different measuring instruments depending on the length to be measured and how accurate we need to be.

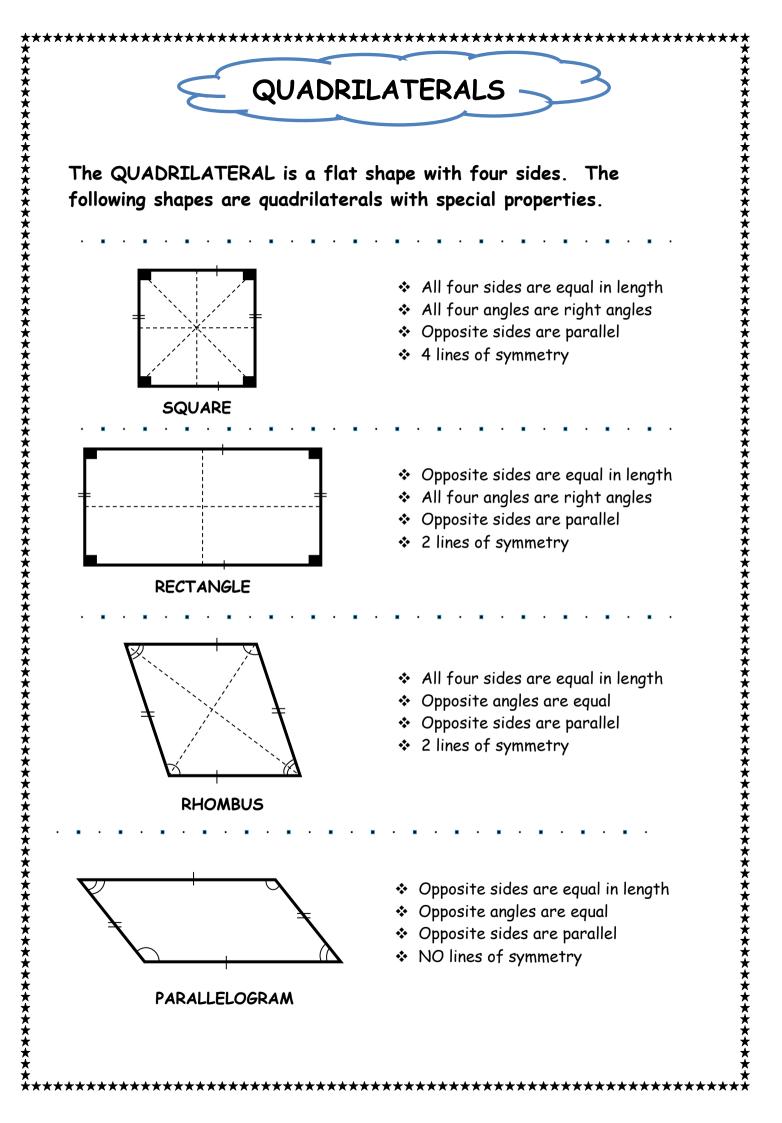
- A RULER is suitable for measuring short lengths such as a width of a spelling book.
- A METRE STICK is suitable for measuring the width of the classroom.
- A TRUNDLE WHEEL is suitable for measuring longer distances such as the length of the corridor or playground.
- A TAPE MEASURE is suitable for measuring around curved objects such as a wastepaper bin or parts of the body.

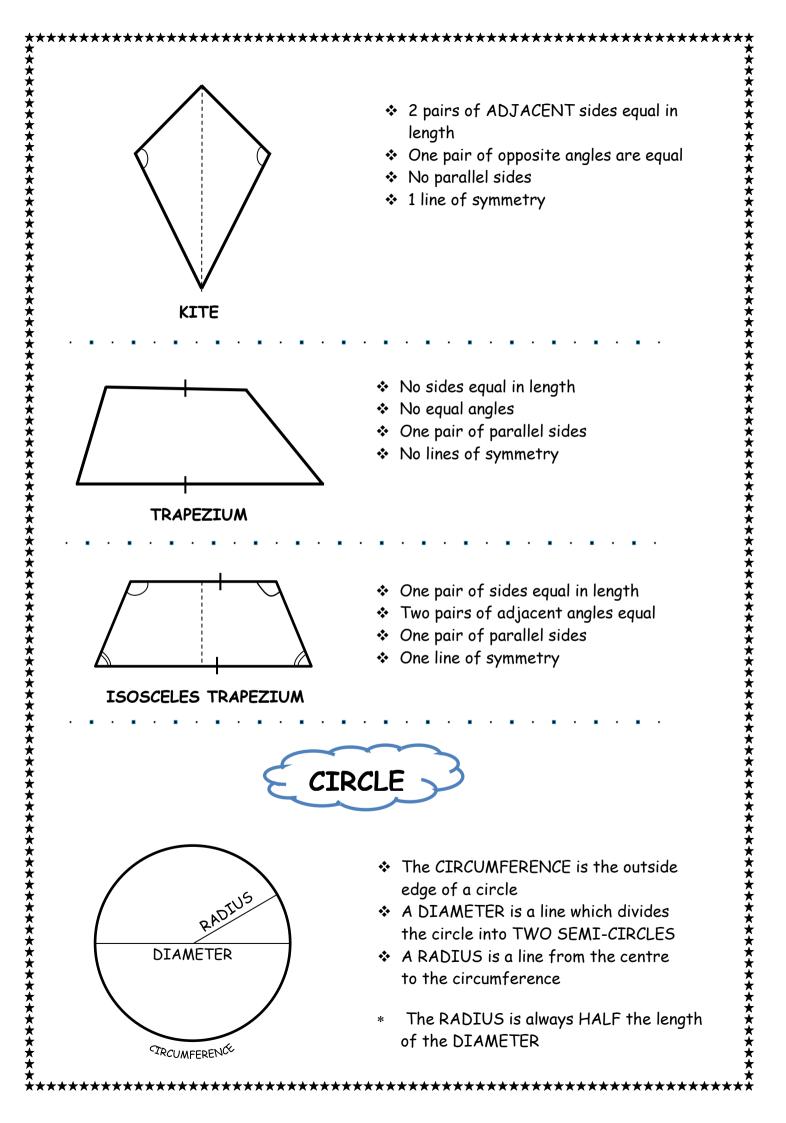


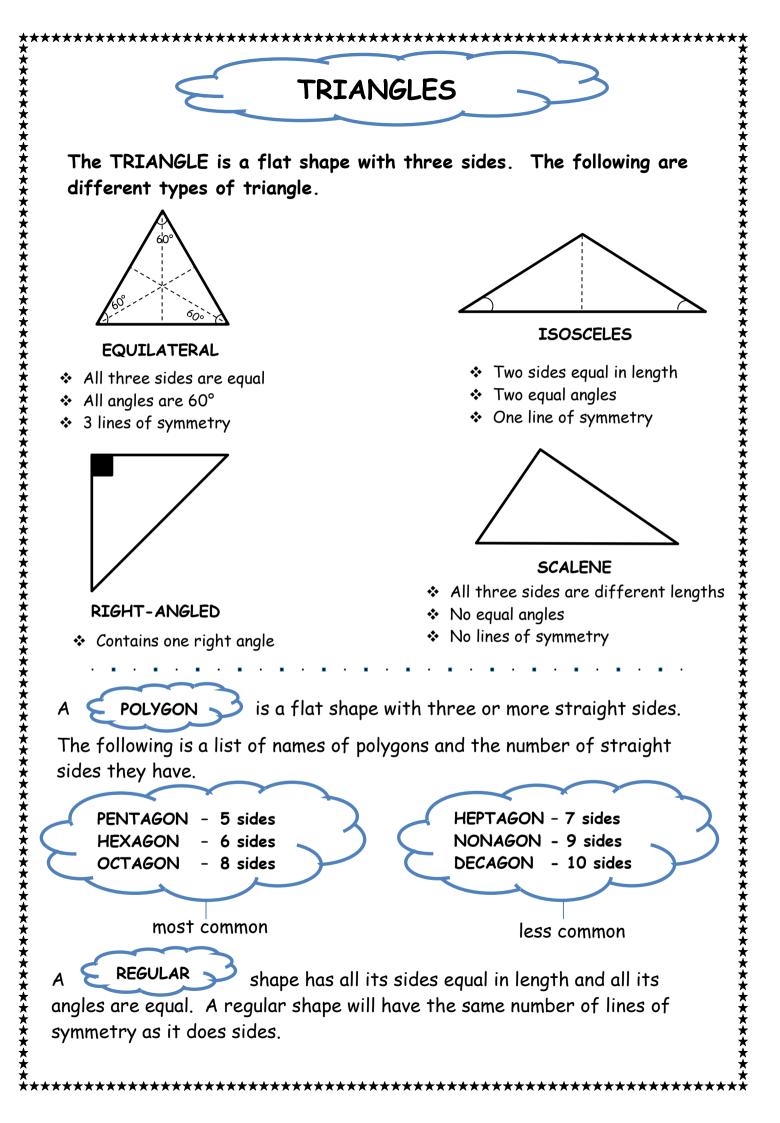














Shapes TESSELLATE if they fit together without leaving any gaps.

- Squares, rectangles, equilateral triangles, regular hexagons will tessellate.
- Pentagons, circles and octagons do NOT tessellate.





REGULAR HEXAGONS tessellate

CIRCLES do not tessellate



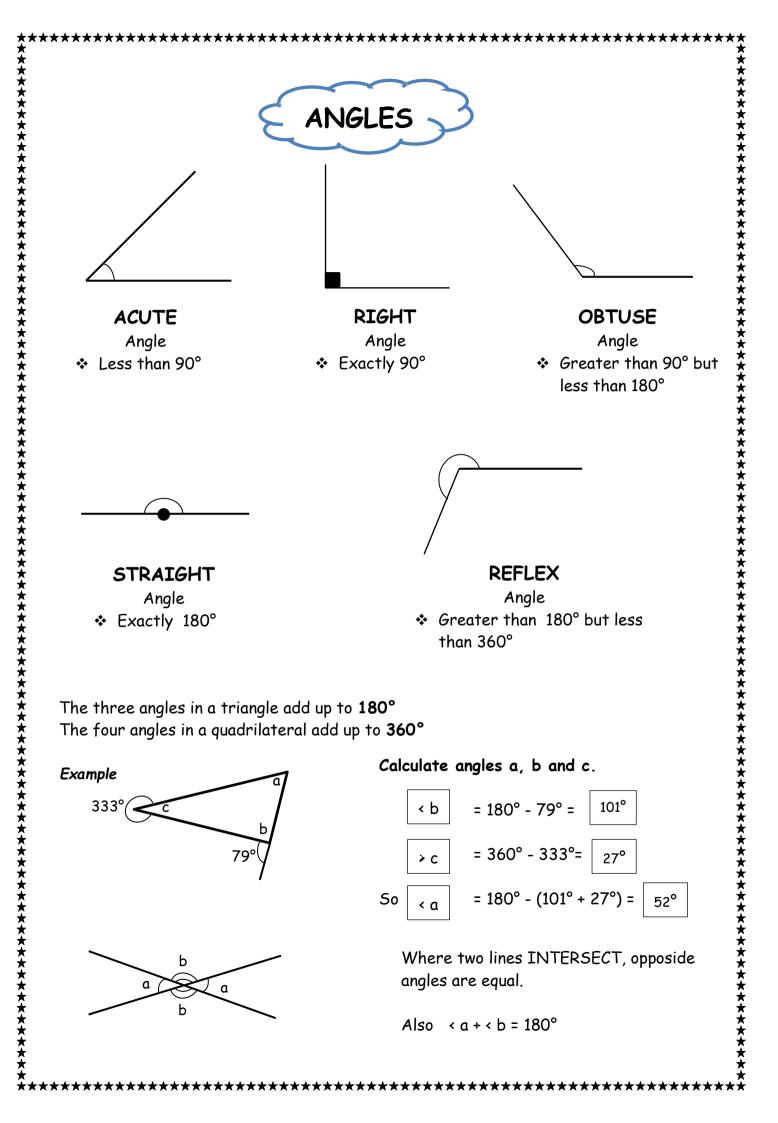
7 6 B 6 B 6 A 5 A A A A A 4 A A A A 3 D A A A 1 C C C C 0 1 2 3 4 5 6 7

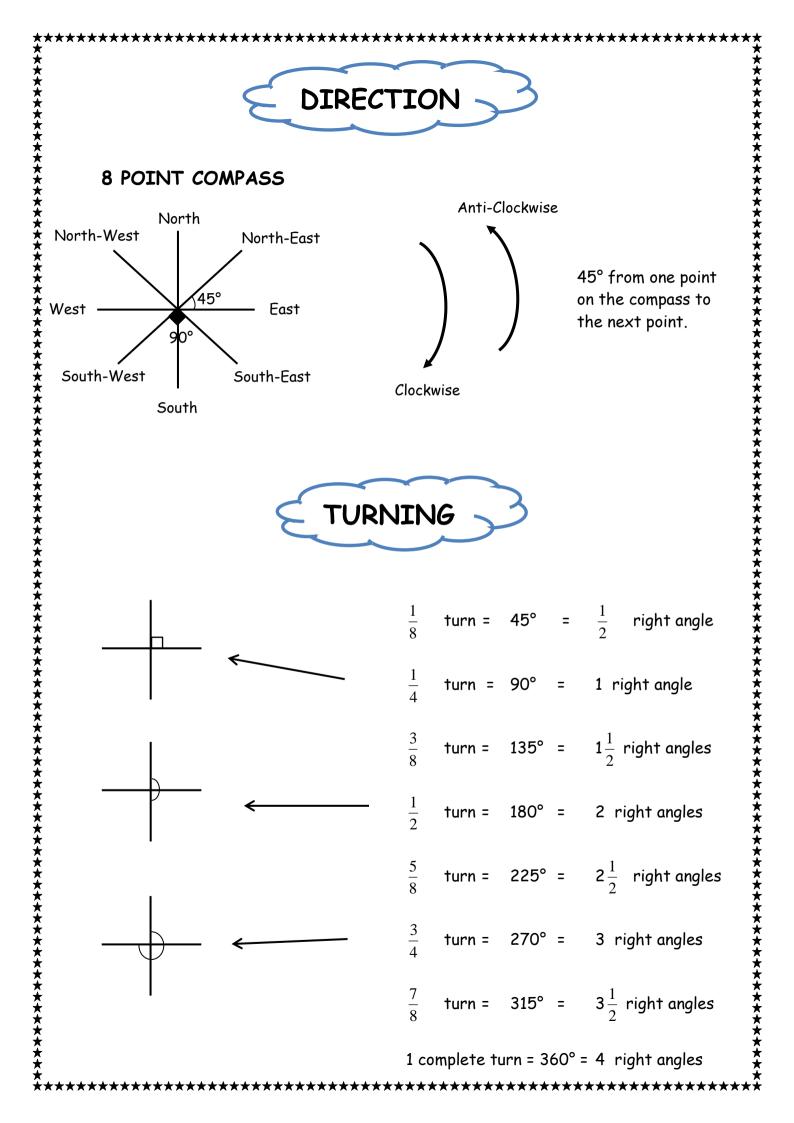
THINGS TO REMEMBER

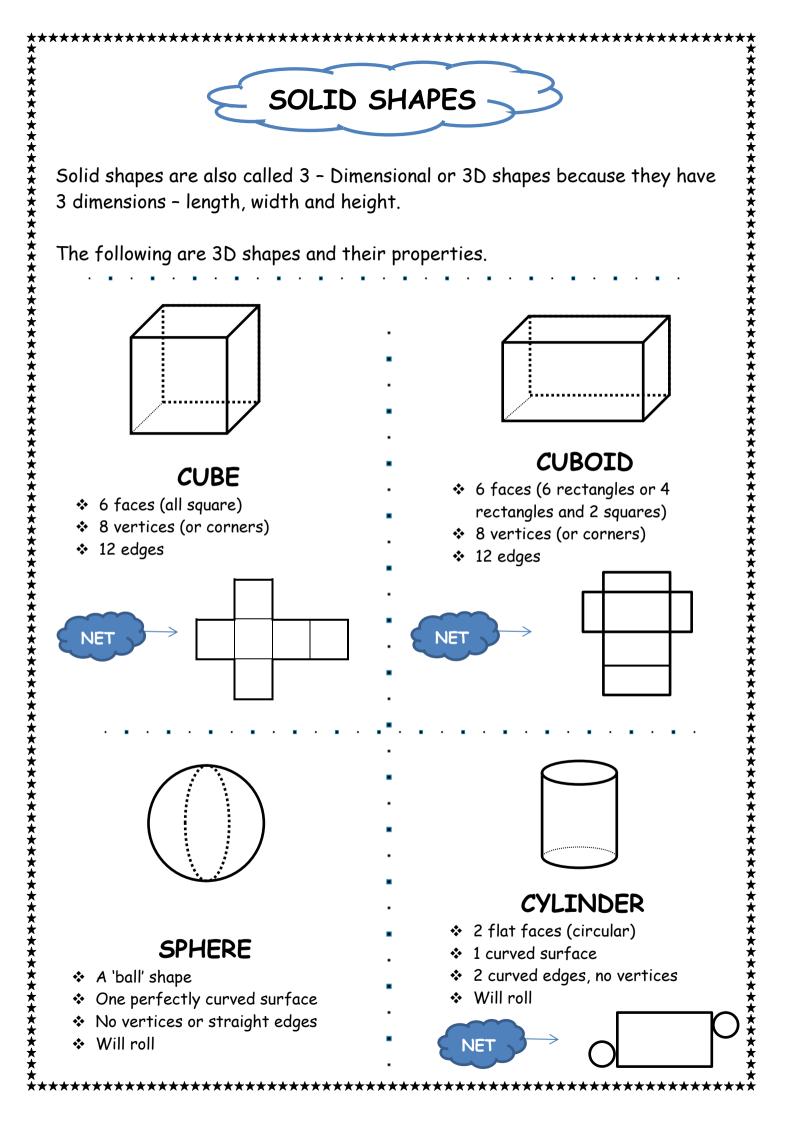
- 1. Always read the horizontal axis first, then the vertical axis.
- Co-ordinates should be written inside brackets and should be separated by a comma.

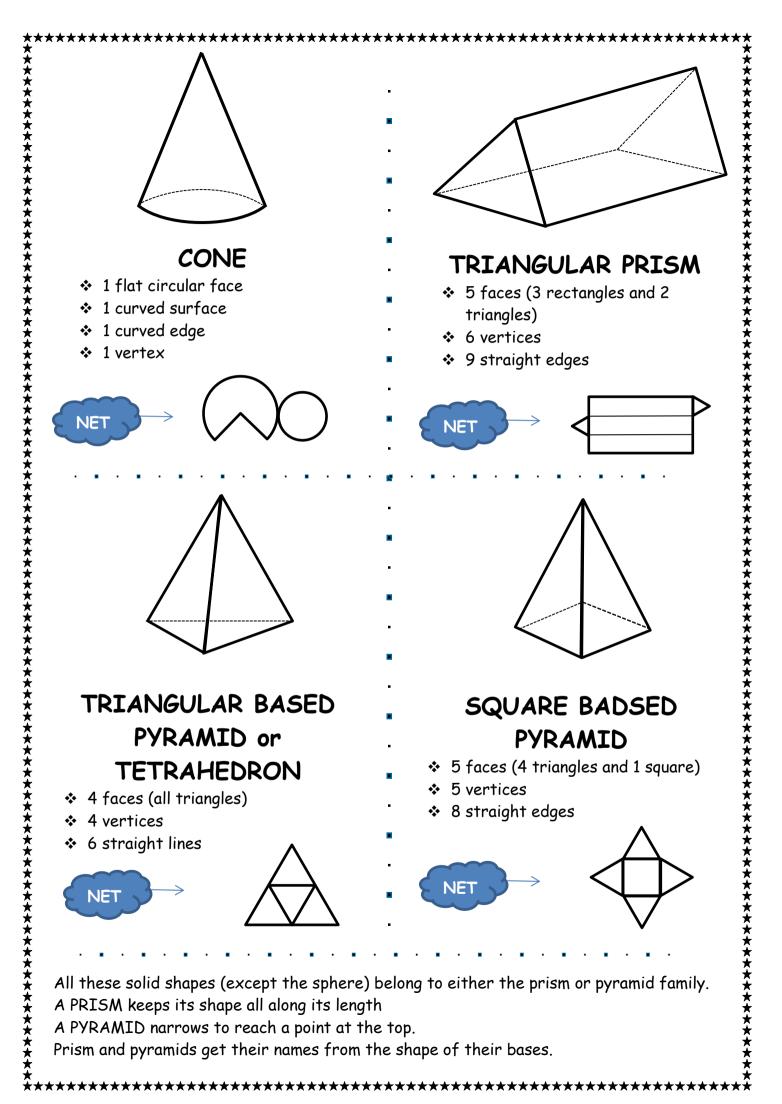
Examples

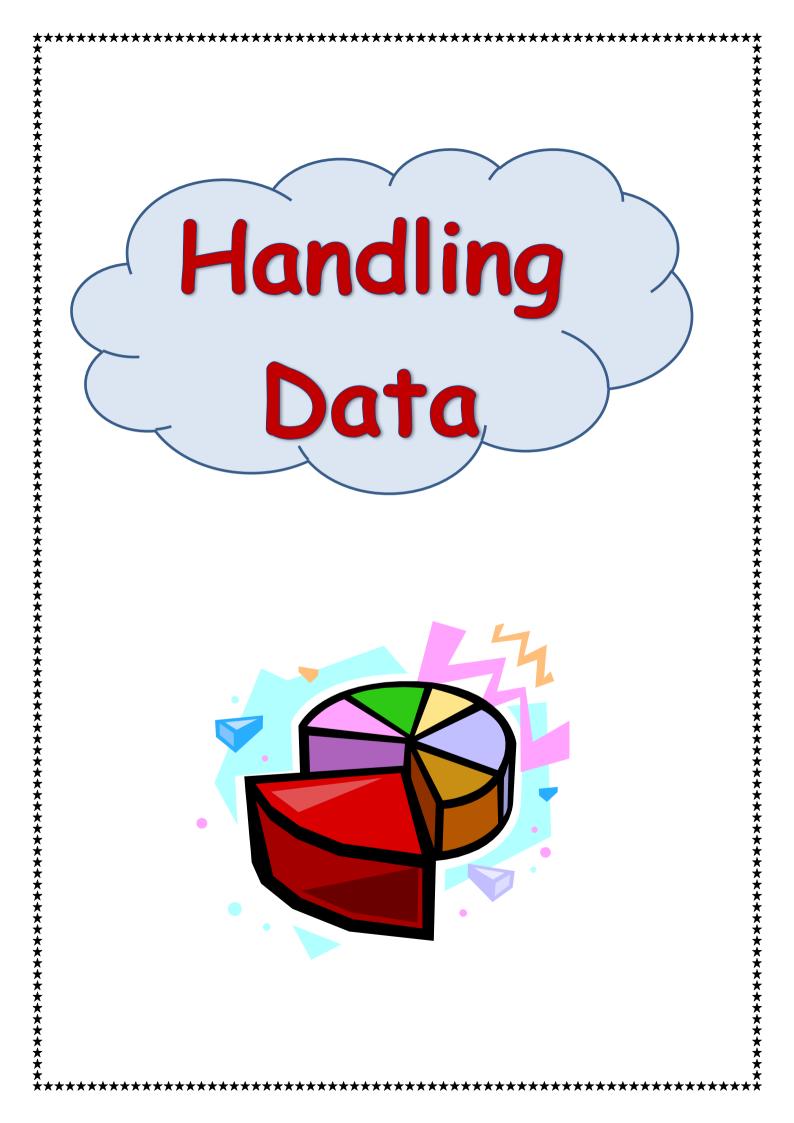
A is (6, 4)	C is (4, 0)
B is (0, 6)	D is (1, 3)

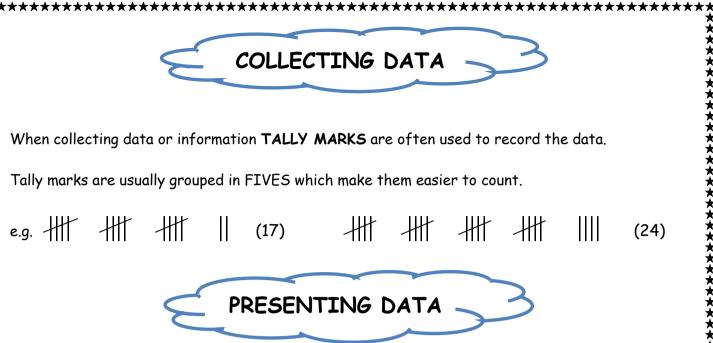




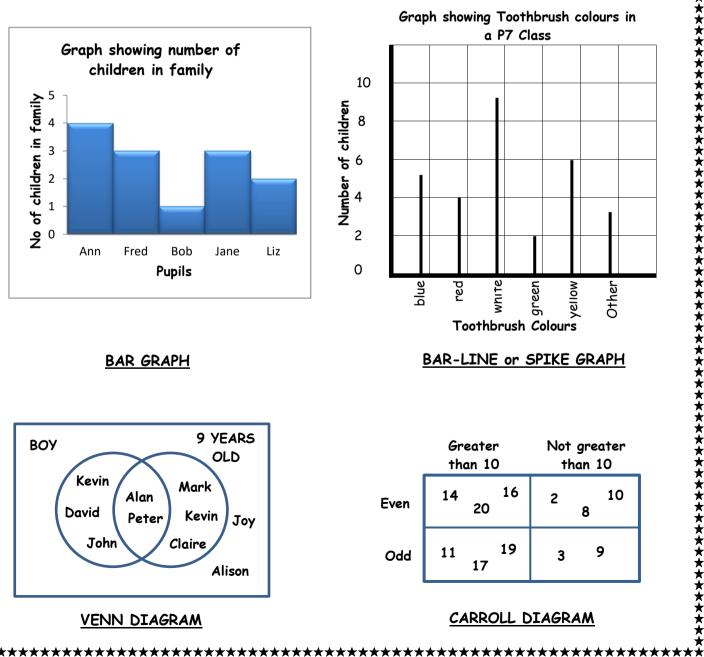


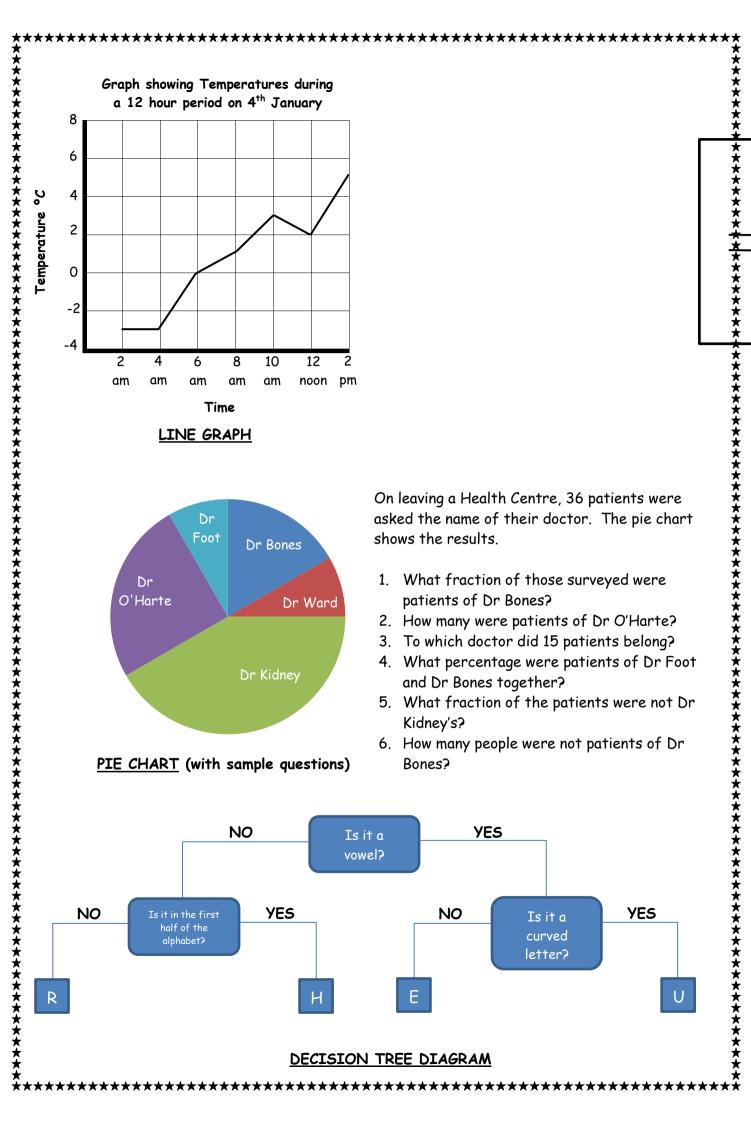






There are many ways to present data using GRAPHS, CHARTS or DIAGRAMS. The following is a variety of ways to present data.





★ ★

To calculate the **MEAN** or **AVERAGE** of a set of numbers add them together and divide by how many numbers you have added together.

Example: Elaine's results in daily spelling tests of 20 words were as follows:

Monday	17
Tuesday	13
Wednesday	20
Thursday	18
Friday	17

Mean

$$\frac{17+13+20+18+17}{5} = \frac{85}{5} = 17$$

The **RANGE** is the difference between the largest and smallest numbers in the set.

The range of Elaine's results is 20 - 13 = 7



PROBABILITY is a judgement of how LIKELY or UNLIKELY an event is to happen.

Many words and phrases can be used to describe how likely it is for something to happen.

e.g. CERTAIN, UNCERTAIN, IMPOSSIBLE, VERY UNLIKELY, POOR CHANCE, etc.

- I will be younger next year IMPOSSIBLE
- It will get dark tonight CERTAIN
- I will meet the Queen next week VERY UNLIKELY ~

If an event has the same chance of happening as not happening then we say the probability is an EVEN CHANCE or FIFTY-FITFY CHANCE.

Examples:

- Getting heads when you toss a coin. •
- Throwing an even number on an ordinary dice.

N.B The probability of getting a six on an ordinary dice is LESS THAN EVEN while the probability of getting a number greater than two is **MORE THAN EVEN**.