

Maths Block 5 & 6

Area of Polygons

Circumference of a Circle



$$C = \pi d$$

Cherry Pie, Delicious!

Area of a Circle



$$A = \pi r^2$$

Apple Pies are too!

Rectangle

area = base x height

Parallelogram

Area = Base x Perpendicular Height
Area = bh

Triangle

½ base x perpendicular height

Trapezium

Area = 1/2 (a + b) h

Experiment: Repeatable procedure -rolling dice x 10

Outcome: Possible result of an experiment

Mutually Exclusive: Can't happen at the same time

Sample Space: All possible outcomes of an experiment shown as a list, table, tree diagram

(H – Head, T – Tail) **Two Coins**

List:
HH HT TH TT

Table:

	H	T
H	HH	HT
T	TH	TT

Tree Diagram:

The sample space is {HH, HT, TH, TT}

In probability
or = add and = multiply

0.5 %

$\frac{\text{Circumference}}{\text{Diameter}} = \pi = 3.14159...$

Units of Measure

Length	Mass	Capacity and Volume
1 km = 1000 m	1 tonne = 1000 kg	1 litre = 1000 ml
1 m = 100 cm	1 kg = 1000 g	1 cl = 10 ml
1 m = 1000 mm	1 g = 1000 mg	1 m ³ = 1000 litres
1 cm = 10 mm		1 cm ³ = 1 ml

Kilo- meaning one thousand
Centi- meaning one hundredth
Milli- meaning one thousandth
Micro- meaning one millionth

1 foot = 12 inches
 1 yard = 3 feet
 1 mile = 1760 yards
 1 pound = 16 ounces
 1 stone = 14 pounds
 1 ton = 160 stones

Metric	Imperial
2.5 cm	1 inch
8 km	5 miles
1 m	39 inches
30 cm	1 foot
1 kg	2.2 pounds
4.5 litres	1 gallon
1 litre	1.75 pints

Probability

Probability is the likelihood or chance of something happening.
 It is shown as either a **fraction - decimal - %**

Probability of an event
 $\frac{\text{Number of ways it can happen}}{\text{Total number of outcomes}}$

Number 6 on the die

$\frac{1}{6}$

Number of possible sides

Probability is between 0 and 1

- 0 = impossible
- 1 = certain

Probability of outcome A is shown as P(A)
P(Red Queen) = probability of picking a Red Queen from a pack of cards.

Parts of a Circle

<p>Radius</p>	<p>Sector</p>	<p>Segment</p>	<p>Arc</p>
<p>Tangent</p>	<p>Chord</p>	<p>Circumference</p>	<p>Diameter</p>