

# Essential Maths Facts for Year 5

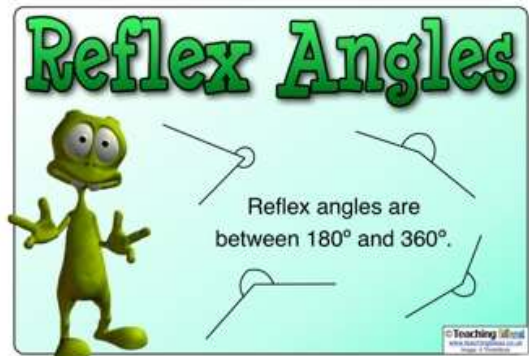
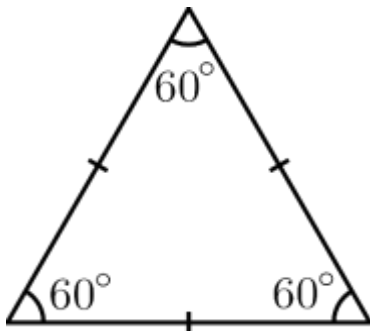
At our school, by the end of Year 5 you need to know:

## Number

- ✓ **Prime numbers** have exactly 2 factors, one of which is 1 and one of which is itself.
- ✓ 1 is not a prime number, as it only has one factor: 1.
- ✓ 2 is the only even prime number.
- ✓ The first ten prime numbers are: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29
- ✓ Numbers which are not prime numbers are called composite numbers.
- ✓ Cube numbers are numbers created by multiplying the same three numbers together.
- ✓ Cubing:  $2^3 = 2 \times 2 \times 2$
- ✓ The first five cube numbers are: 1, 8, 27, 64, 125

## Shape

- ✓ The angles in a triangle add-up to  $180^\circ$ .
- ✓ The angles on a straight line add-up to  $180^\circ$ .
- ✓ The angles round a point add-up to  $360^\circ$ .
- ✓ The angles in a quadrilateral add-up to  $360^\circ$ .
- ✓ In a regular shape all sides and angles are the same size.
- ✓ Each angle in an equilateral triangle is  $60^\circ$ :



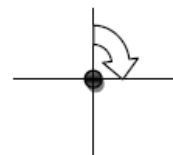
- ✓ A whole turn – the angle around a point  $360^\circ$



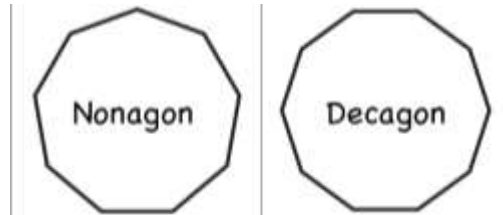
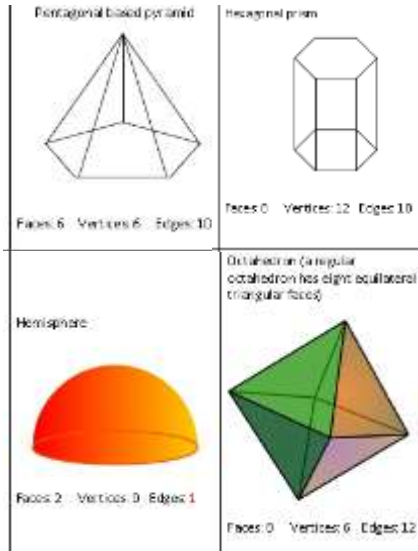
- A half turn – the angle around a point on a straight line.  $180^\circ$



- A quarter turn – the right angle.  $90^\circ$



- ✓ The area of a rectangle = length x width.
- ✓ The names and properties of these 2D and 3D shapes:



## Measures

<ul style="list-style-type: none"> <li>✓ 50cm = <math>\frac{1}{2}</math> m</li> <li>✓ 75cm = <math>\frac{3}{4}</math> m</li> <li>✓ 25cm = <math>\frac{1}{4}</math> m</li> <li>✓ <math>\frac{3}{4}</math> km = 750 m</li> <li>✓ <math>\frac{1}{4}</math> km = 250m</li> </ul>
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<ul style="list-style-type: none"> <li>✓ 1000 kg = 1 tonne</li> <li>✓ 750g = <math>\frac{3}{4}</math> kg</li> <li>✓ 250g = <math>\frac{1}{4}</math> kg</li> </ul>
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<ul style="list-style-type: none"> <li>✓ 100 cl = 1l</li> <li>✓ 750 ml = <math>\frac{3}{4}</math> l</li> <li>✓ 250 ml = <math>\frac{1}{4}</math> l</li> </ul>
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<ul style="list-style-type: none"> <li>✓ 1 inch <math>\cong</math> 2.5 cm</li> <li>✓ 1 pound <math>\cong</math> 450g</li> <li>✓ 1 pint <math>\cong</math> 550ml</li> </ul>
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