Ashfield Valley Primary School— Year 6 —Summer 2- Maths Knowledge Organiser

Rounding to 1,000,000

Rounding to the Nearest 10,000

| 29,999 |
| 29,998 |
| ... |
| 25,001 |
| 25,000 |
| 24,999 |
| 24,998 |
| ... |
| 20,002 |
| 20,001 |

Round up to 30,000

Round down to 20,000

Rounding to the Nearest 100,000

| 699,999 |
| 699,998 |
| ... |
| 650,001 |
| 650,000 |
| 649,999 |
| 649,998 |
| ... |
| 600,002 |
| 600,001 |

Round up to 700,000

Round down to 600,000

Division

D13: Long division (no remainders)

```
        0 3 2 5
  25 | 8 1 2 5
     - 7 5          (x3)
       6 2
     - 5 0          (x2)
       1 2 5
     - 1 2 5        (x5)
           0
```

8125÷25=325

Converting miles and kilometres
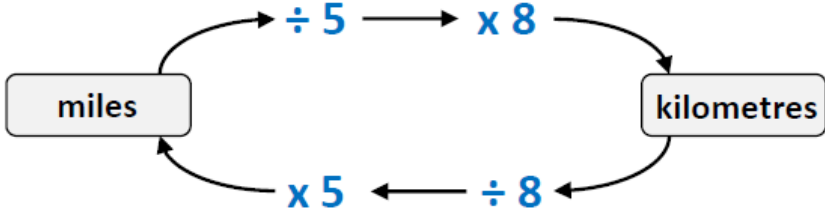
Miles and Kilometres

1 mile = 1.609 kilometres

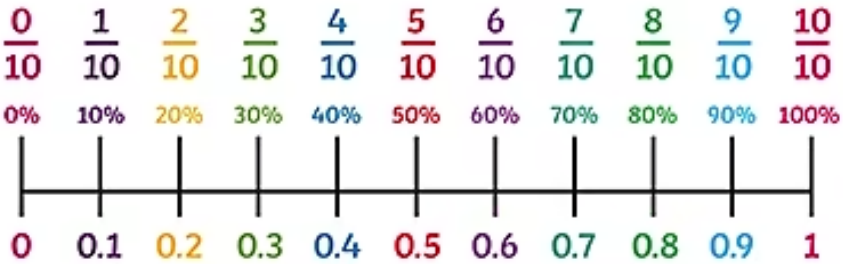This is made simpler using the following method of conversion

5 miles ≈ 8 kilometres

(the ≈ symbol means approximately)

How to convert between miles and kilometres

miles ÷ 5 → x 8 kilometres

kilometres ÷ 8 → x 5 miles

Properties of 2D and 3D Shapes

Name	Surfaces Flat	Surfaces Curved	Edges Flat	Edges Curved	Vertices	Picture
sphere	0	1	0	0	0	
cube	6	0	12	0	8	
cuboid	6	0	12	0	8	
cone	1	1	0	1	0	
cylinder	2	1	0	2	0	
square-based pyramid	5	0	8	0	5	
tetrahedron	4	0	6	0	4	
triangular prism	5	0	9	0	6	
pentagonal prism	7	0	15	0	10	
hexagonal prism	8	0	18	0	12	
octagonal prism	10	0	24	0	16	
octahedron	8	0	12	0	6	

Name		Sides	Vertices
triangle		3	3
circle		1	0
square		4	4
rectangle		4	4
pentagon		5	5
hexagon		6	6
oval		1	0
rhombus		4	4
trapezium		4	4
parallelogram		4	4

Fractions, Decimals and Percentages

$\frac{0}{10}$	$\frac{1}{10}$	$\frac{2}{10}$	$\frac{3}{10}$	$\frac{4}{10}$	$\frac{5}{10}$	$\frac{6}{10}$	$\frac{7}{10}$	$\frac{8}{10}$	$\frac{9}{10}$	$\frac{10}{10}$
0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1