Percentages

Fractions as percentages:

$\frac{1}{10}$ = 10% $\frac{1}{5}$ = 20%

$\frac{1}{100}$ = 1% $\frac{1}{3}$ = 33.33%

$\frac{1}{4}$ = 25% $\frac{1}{8}$ = 12.5%

$\frac{1}{2}$ = 50%

Finding 10% and 1%:

To find 10% of a number, divide the number by 10.

e.g.

10% of 600 = 600 ÷ 10

10% of 600 = 60

10% of 670 = 670 ÷ 10

10% of 670 = 67

To find 1% of a number, divide the number by 100.

e.g.

1% of 600 = 600 ÷ 100

1% of 600 = 6

1% of 670 = 670 ÷ 100

1% of 670 = 6.7

Finding percentages of amounts:

Once you know how to find 10 and 1%, you can use this to find any percentage of an amount.

For example:

37% of 500

10% of 500 = 50 10% x 3 = 30% 50 x 3 = 150

1% of 500 = 5 1% x 7 = 7% 5 x 7 = 35

150 + 35 = 185

or

37% of 500

1% of 500 = 5

1% x 37 = 37%

5 x 37 = 185

When dividing by 10 or 100, the digits move to the right.

Units			•	1/10	1/100	1/1000
Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
	4	2	•	7		

The number of places is determined by the number of place holders.
10 = move one place
100 = move two places

Key Vocabulary

Hundredth - One out of 100 equal parts of a whole

Percentage – A proportion or share in relation to a whole

Place holder - A significant zero in the place value of a number

Place value - The value a digit has because of its position in a number

Tenth - One out of 10 equal parts of a whole

Thousandth - One out of 1000 equal parts of a whole

Fractions, decimals and percentages:

Fraction	Decimal	Percentage
1/10	0.1	10%
1/100	0.01	1%
1/5	0.2	20%
1/4	0.25	25%
1/3	0.33	33.33%
1/2	0.5	50%
3/4	0.75	75%
1/8	0.125	12.5%