

## Mathematical vocabulary

Let's look at some of the words you'll be using this term...

Key Words	Definition	Examples
<b>Integer</b>	A whole number.	$5, 5.0, \frac{5}{1}$ (integers) $5.1, \frac{5}{2}$ (non-integers)
<b>Range</b>	The difference between the highest and lowest value in a set of numbers.	For the numbers 7, 4, 8.1, 13, 6.7 the range is $13 - 4 = 9$
<b>Median</b>	The middle value in a set of numbers that are in order. If there are two numbers in the middle, then the median is the value that would be half-way between those two numbers.	For the numbers 7, 4, 8.1, 13, 6.7 the median is 7 For the numbers 9, 3, 4, 7, 4, 8 the median is 7.5
<b>Significant figure</b>	Any non-zero digit in a number is significant. Any zeros that come after non-zero digits are also significant.	$0.0000031050070000$ (0.000003 is not significant, 1050070000 is significant)
<b>1<sup>st</sup> significant figure</b>	The first non-zero digit in a number, looking from left to right.	$401.89$ (4 is 1 <sup>st</sup> significant figure) $0.00003718$ (3 is 1 <sup>st</sup> significant figure)
<b>2<sup>nd</sup> significant figure</b>	The digit in the next place value column that is to the right of the 1st significant figure.	$401.89$ (0 is 2 <sup>nd</sup> significant figure) $0.00003718$ (7 is 2 <sup>nd</sup> significant figure)

## Facts, formulae and procedures

Let's review some of the facts, formulae and procedures that you've learned in the past...

### To calculate a fraction of an amount:

Divide the amount by the denominator and then multiply what you get by the numerator.

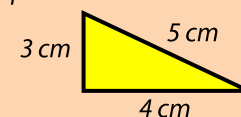
Example:  $\frac{3}{5}$  of 20

$$\frac{1}{5} \text{ of } 20 = 20 \div 5 = 4$$

$$\frac{3}{5} \text{ of } 20 = 4 \times 3 = 12$$

### To calculate the perimeter of any shape:

Example:



$$\text{Perimeter} = 3 \text{ cm} + 4 \text{ cm} + 5 \text{ cm} = 12 \text{ cm}$$

## Number Facts

Square numbers:

$1 \times 1 = 1$

$2 \times 2 = 4$

$3 \times 3 = 9$

$4 \times 4 = 16$

$5 \times 5 = 25$

$6 \times 6 = 36$

$7 \times 7 = 49$

$8 \times 8 = 64$

$9 \times 9 = 81$

$10 \times 10 = 100$

$11 \times 11 = 121$

$12 \times 12 = 144$

$13 \times 13 = 169$

$14 \times 14 = 196$

$15 \times 15 = 225$