

## Key Points

**Place value**

The position of a **digit** in a number tells you its **place value**.

**Ordering numbers**

To **order** numbers, look at the digits with the highest place value. The biggest number has the largest digit. If numbers have the same value digit, look at the digits in the next place value column.

**Rounding**

Whole numbers can be rounded to the nearest 10, 100 or 1000. Decimal numbers can be rounded to the nearest whole number, one decimal place (1 d.p.), two decimal places (2 d.p.), and three decimal places (3 d.p.).

**Converting between metric units**

To **convert** between different metric units, multiply or divide by 10, 100 or 1000.

**Equivalent fractions**

To find **equivalent fractions**, multiply or divide the numerator and denominator by the same number.

**Simplifying fractions**

To **simplify** a fraction, divide the numerator and denominator by the same number.

**Finding a fraction of a quantity**

To find a fraction of a quantity, divide the quantity by the denominator and then multiply by the numerator, or multiply the quantity by the numerator and then divide by the denominator.

**Order of operations**

**Brackets**→**Indices (powers)**→**Division and Multiplication**→**Addition and Subtraction**

## 3.1 Whole numbers

Links to:  
Section 3.1, p. 35

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1 Look at the numbers in the place value diagram.

- a Write down the value of the 2 in 6427. ....
- b Write down the value of the 5 in 245 000. ....
- c Write down the number that has three tens. ....
- d Write down the number that has 8 ten thousands. ....
- e Write the number 930 in words. ....

HTh	TTh	Th	H	T	U
		6	4	2	7
	8	0	1	5	4
			9	3	0
2	4	5	0	0	0

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2 Look at these cards:



- a Use all three cards once to make the largest number possible. ....
- b Use all three cards once to make the smallest number possible. ....

A02

- 3 a** Mr Gerrard has been given a cheque for twenty-five thousand, eight hundred and twelve pounds.

Write this amount in figures in the space on the cheque.

- b** The cheque below is for £4680.

Write this amount in words in the space on the cheque.

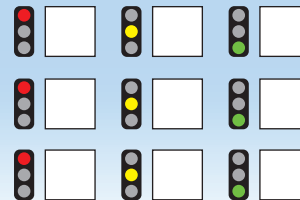
- 4** Write these numbers in order, from smallest to largest.

246    85    514    ~~26~~    380    653    ~~77~~  
 26    77    —    —    —    —    —

Cross the numbers off as you write them down.

**Assess yourself**

- 1 2** I can identify the value of digits in whole numbers
- 3** I can read and write whole numbers in words and figures
- 4** I can order whole numbers



**3.2 Decimals**

Links to:  
Section 3.2, p.38

- 1** Look at the numbers in the place value diagram.

H	T	U	.	t	h	th
		8	.	6	3	
	1	5	.	0	8	
4	6	0	.	9	7	1

- a** Write down the value of the 6 in 8.63 .....
- b** Write down the value of the 8 in 15.08 .....
- c** Write down the number that has zero units. ....
- d** Which number has 4 hundreds? .....
- e** Which number has 3 hundredths? .....
- f** Write down the number that has 1 thousandth. ....