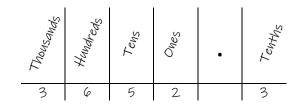
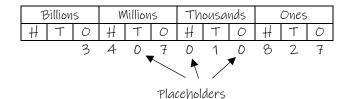
Y7 Maths Knowledge Organiser Topic 3: Place value and rounding

What must I be able to do?		Key vocabulary	
	Read and write whole numbers in figures and words. Read and write decimals in figures and words. Understand decimal notation and place Values.	Whole number	A number with <u>no fractional</u> or <u>decimal parts</u> , does not include negative numbers.
	Sparx Q127, M704 Round whole numbers to the nearest 1000, 100 or 10.	Integer	A <u>whole number</u> . It can be <u>positive</u> , <u>negative</u> or zero.
	> Sparx W111	Figures	A number <u>written</u> in <u>digits</u> .
	Use the number line to display decimals and round decimals to the nearest whole number, to 1 or 2 decimal places. > Sparx M763	Round	To make a <u>number simpler</u> but keeping its <u>value close</u> to what it was.
	Round off a number to a required number of decimal places. Sparx M431	Decimal	A decimal is used to show values <u>smaller than</u> one whole unit.
	Estimate the answer to a given problem by rounding to the nearest whole number or ten, hundred etc. > Sparx M878	Estimate	Estimating is used to make complex calculations simpler, and used to <u>roughly</u> <u>calculate</u> the outcome or result.

Place Value

3652.3 is, Three thousands, Six hundreds, five tens, two ones and three tenths





3 billion, 4 hundred and 7 million, 10 thousand, 8 hundred and twenty seven

Estimate/Approximate

Round each number to an appropriate value and then calculate the remaining sum

e.g.
$$0.63 \times 23 = 0.6 \times 20 = 12$$

e.g.
$$\frac{34 \times 52}{2.3} = \frac{30 \times 50}{2} = \frac{1500}{2} = 750$$

