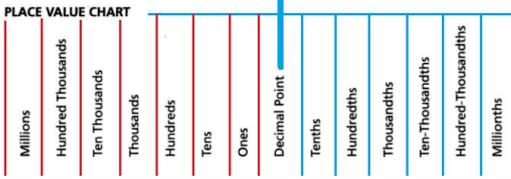


## KS3 Unit1 Place Value and Integers and Unit 2 Place Value and Decimals

Topic/Skill	Definition/Tips	Example
1. Place Value	The <b>value</b> of where a <b>digit</b> is within a number.	In 726, the value of the 2 is 20, as it is in the 'tens' column.
2. Place Value Columns	The names of the columns that <b>determine the value of each digit</b> .  The 'ones' column is also known as the 'units' column.	 <p>PLACE VALUE CHART</p> <p>Millions Hundred Thousands Ten Thousands Thousands Hundreds Tens Ones Decimal Point Tenths Hundredths Thousandths Ten-Thousandths Hundred-Thousandths Millionths</p>
3. Integer	A <b>whole number</b> that can be positive, negative or zero.	-3, 0, 92
4. Decimal	A number with a <b>decimal point</b> in it. Can be positive or negative.	3.7, 0.94, -24.07
5. Negative Number	A number that is <b>less than zero</b> . Can be decimals.	-8, -2.5
6. Addition	To find the <b>total</b> , or <b>sum</b> , of two or more numbers. 'add', 'plus', 'sum'	$3 + 2 + 7 = 12$
7. Subtraction	To find the <b>difference</b> between two numbers. To find out how many are left when some are taken away. 'minus', 'take away', 'subtract'	$10 - 3 = 7$
8. Multiplication	Can be thought of as <b>repeated addition</b> .  'multiply', 'times', 'product'	$3 \times 6 = 6 + 6 + 6 = 18$
9. Division	Splitting into equal parts or groups. The process of calculating the <b>number of times one number is contained within another one</b> .  'divide', 'share'	$20 \div 4 = 5$  $\frac{20}{4} = 5$
10. Remainder	The amount ' <b>left over</b> ' after dividing one integer by another.	The remainder of $20 \div 6$ is 2, because 6 divides into 20 exactly 3 times, with 2 left over.
11. Recurring Decimal	A decimal number that has <b>digits that repeat forever</b> .  The part that repeats is usually shown by placing a dot above the digit that repeats, or dots over the first and last digit of the repeating pattern.	$\frac{1}{3} = 0.333 \dots = 0.\dot{3}$  $\frac{1}{7} = 0.142857142857 \dots = 0.\dot{1}4285\dot{7}$  $\frac{77}{600} = 0.128333 \dots = 0.128\dot{3}$