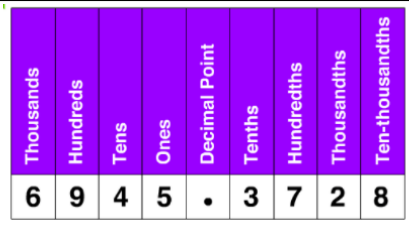
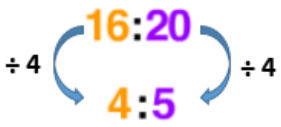
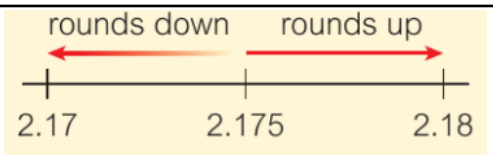
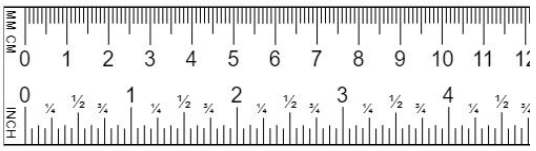
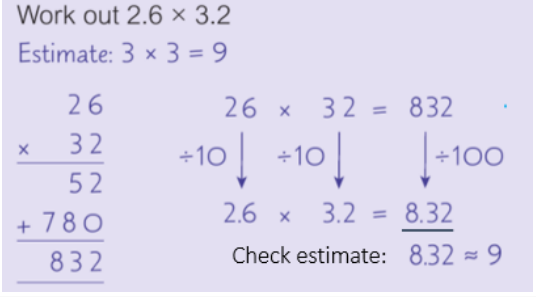
Prior Knowledge			
1	Place value		In the number 6945.3728, the place value of the 9 is 900 or 9 hundreds, the place value of the 2 is 2 thousandths.
2	Ascending		Gets higher - order from smallest to largest
3	Descending		Gets lower - order from largest to smallest
4	Simplifying a ratio		You can make the numbers in a ratio as small as possible by simplifying. Simplify by dividing the numbers in the ratio by their highest common factor.
5	Proportion		A proportion compares a part with a whole. You can write a proportion as a fraction, decimal or percentage.
Core Knowledge			
6	Rounding to decimal places		The number of decimal places is the number of digits to write to the right of the decimal point. Look at the next digit to the right, if 5 or more round the previous digit up.
7	Appropriate degree of accuracy		An appropriate degree of accuracy is one that can be measured easily and accurately. For example, you can measure the length of a pencil to 9.8cm but not to 9.765cm
8	Decimal millions	3 670 000 = 3.67 million or 10 500 000 = 10.5 million	You can write large numbers as a decimal number of millions to save writing all the zeros.
9	Significant figures	256.67 = 300 (to 3 s.f.) = 260 (to 2 s.f.) = 257 (to 3 s.f.) = 256.7 (to 4 s.f.) 0.0058 = 0.006 (to 1 s.f)	The first significant figure is the digit with the highest place value. It is the first non zero digit from the left.
10	Multiplying by 0.1, 0.01	56 x 0.1 = 5.6 56 x 0.01 = 0.56	Multiplying by a number less than 1 gives a smaller answer. x 0.1 = ÷ 10 (move digits 1 place right) x 0.01 = ÷ 100 (move digits 2 places right)
11	Multiplying decimals		Use normal multiplication methods to work out multiplications ignoring the decimal point. Then use the place value of the numbers to add the decimal point. You can also estimate to check your answer.

12	Related calculations using place value	26 x 32 = 832 ÷ 10 ÷ 10 2.6 x 32 = 83.2 26 x 32 = 832 ÷ 100 ÷ 10 ÷ 1000 0.26 x 3.2 = 0.832	Use place value comparisons to work out calculations from given facts.
13	Divide by 0.1, 0.01	56 ÷ 0.1 = 560 56 ÷ 0.01 = 5600	Dividing by a number less than 1 gives a larger answer. ÷ 0.1 = x 10 (move digits 1 place left) ÷ 0.01 = x 100 (move digits 2 places left)
14	Dividing decimals	Work out 67.8 ÷ 1.2 ×10 (1.2)67.8 ×10 → (12)678 5 6. 5 12)6 7 8.6 0 Check: 12 × 56.5 ≈ 10 × 60 = 600	To divide by a decimal, multiply both numbers by a power of 10 (10, 100, 1000,...) until you have a whole number to divide by. Then work out the division.
15	Sharing in a ratio	Share £120 in the ratio 1:2:3. 1 + 2 + 3 = 6 parts £120 ÷ 6 = £20 £120 20 | 20 | 20 | 20 | 20 | 20 £20 1 part £40 2 parts £60 3 parts	To share a quantity in a ratio: Work out the total number of parts, find out how much 1 part is worth, multiply 1 part by each value in the ratio
16	Simplify a decimal ratio	×10 (40 : 28.5) ×10 (400 : 285) ÷5 (80 : 57) ÷5	Simplify by multiplying each part by a power of 10 to get whole numbers. Then simplify.
17	Unit ratios	Express 13:9 as a **unit ratio**. ÷9 (13 : 9) ÷9 (1.44 : 1) Divide both sides of the ratio by the smaller number.	You can compare ratios by writing them as unit ratios. In a unit ratio, one of the numbers is 1.
Depth Knowledge			
18	Truncate	3.75cm can be truncated to 3cm	You can truncate a number by cutting digits off beyond a certain point - without rounding.