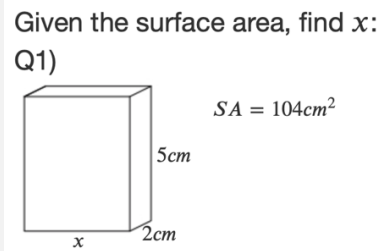
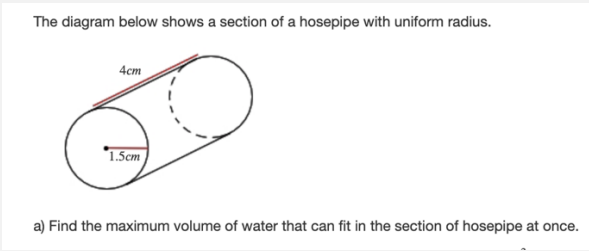
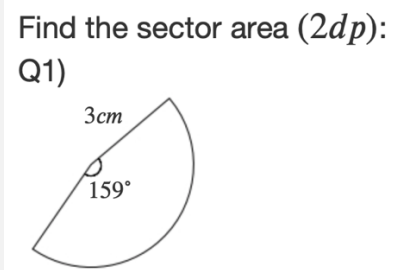


# Year 9 Term 1

Learning Aim	Developing	Securing	Mastering
Number	Order decimals and negative integers Four operations, Rounding Prime, power, roots, HCF, LCM	Order mixed numbers Solve complex problems (4 ops) Estimating complex problems Prime factorisation to work out HCF and LCM	Complex question that mix number type and extend in to BIDMAS Understand error intervals Apply and interpret limits of accuracy
Examples	Order 0.403, 0.4, 0.430, 0.04 $\frac{4}{5} + \frac{5}{8} =$ $4.38 \times 36 =$ $-30 + 7 =$ Round 47523 to nearest 100, Round 3.472 to 1dp Write the first 5 prime numbers Write the HCF of 16 and 36	Order the following numbers in ascending order $0.54, \frac{2}{3}, \frac{4}{5}, 1.5, 0.3$  Estimate $\frac{15.4 \times 38.9}{8.32 - 2.2^2}$  Write the prime factorisation for 120	$3\frac{1}{4} \div 0.6 \times (3.8 - 1\frac{1}{4}) =$  A number has been rounded to 4.7, write the error interval
Area/ Perimeter/ Volume	Apply formula to trapezium. Calculate Volume and surface are of cuboids and prisms Problem solve compound shapes involving rectangles and triangles	Apply formula to calculate area and circumference of circle, volume and surface area of cylinder and all other prisms. Use M/D/V formula	Apply knowledge to functional skill questions. <b>Area &amp; perimeter of sectors</b> <b>Area and perimeter of compound shapes with arcs. Bounds.</b>
Examples	<p>Given the surface area, find x: Q1)</p> 	<p>The diagram below shows a section of a hosepipe with uniform radius.</p>  <p>a) Find the maximum volume of water that can fit in the section of hosepipe at once.</p>	<p>Find the sector area (2dp): Q1)</p> 

## Extension opportunities

1/2absinC

Bounds

Recurring decimals to fractions

Negative & fractional indices

You can find practice on all the topics taught this term at [Mathsworkout.co.uk](http://Mathsworkout.co.uk).

Login: sarum. Password: solid92

Go to Geometry; section 10.12 & 13. Number; section 02,05,06,07,07,09,10,11,12, 16 & 20

Choosing the right level of difficulty for you within each topic area.