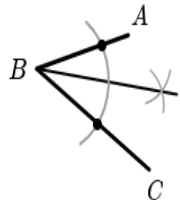
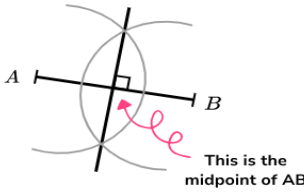
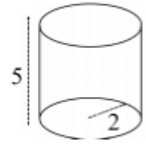


Topic	Information	Example	Sparx clip
1 Re-arranging formulae	Use inverse operations on both sides of the formula (balancing method) until you find the expression for the letter.	<p>Make x the subject of $y = \frac{2x-1}{z}$</p> <p>Multiply both sides by z $yz = 2x - 1$ Add 1 to both sides $yz + 1 = 2x$ Divide by 2 on both sides $\frac{yz+1}{2} = x$ We now have x as the subject.</p>	U325, U870, U505, U556.
2 Constructing bisectors and perpendicular lines	<p>An angle bisector is the name given to an accurate drawing where an angle is cut in half by a straight line. Bisector means to cut in half; in two equal pieces. To do this we need to use a pencil, a ruler and compasses.</p> <p>A perpendicular bisector is the name given to an accurate drawing where a line is cut in half by a new line which is at 90 degrees to the original line.</p>	 	U985, U196, U787, U245.
3 Circles and cylinders	<p>$A = \pi r^2$ which means 'pi x radius squared'. $C = \pi d$ which means 'pi x diameter'. <u>Cylinder</u> Curved Surface Area = πdh or $2\pi rh$ Total SA = $2\pi r^2 + \pi dh$ or $2\pi r^2 + 2\pi rh$</p>	<p>If the radius was 5cm, then: $A = \pi \times 5^2 = 78.5cm^2$</p> <p>If the radius was 5cm, then: $C = \pi \times 10 = 31.4cm$</p> <p>$Total SA = 2\pi(2)^2 + \pi(4)(5) = 28\pi$</p> 	U767, U604, U950, U259, U221, U373, U464, U915, U174, U926.
4 Error Intervals	<p>A range of values that a number could have taken before being rounded or truncated.</p> <p>An error interval is written using inequalities, with a lower bound and an upper bound.</p>	<p>0.6 has been rounded to 1 decimal place. The error interval is:</p> <p style="text-align: center;">$0.55 \leq x < 0.65$</p> <p>The lower bound is 0.55 The upper bound is 0.65</p>	U480, U298, U731, U965, U657, U108, U301.