

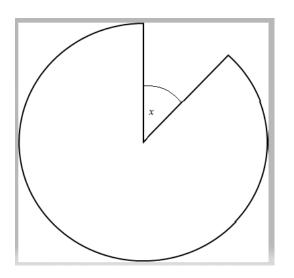
Angles Level 1 and 2

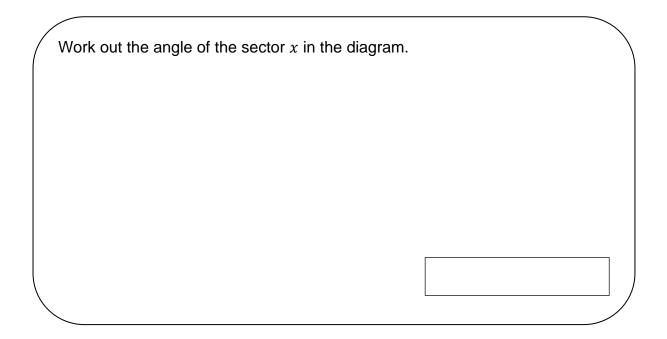
Question 1 (Non-Calculator Level 2)

Dan wants to make a template for a cone hat.

The template is made by removing a sector from a circle.

He wants the angle of the sector to be $\frac{3}{20}$ of a full turn.





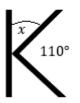


Question 2 (Calculator Level 2)

Eric is designing the lettering for a new shop sign for computing business K.X.

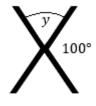
He needs to calculate the angles in each letter.

Eric knows his letter K has one line of symmetry.



(a) Work out the size of the angle marked x





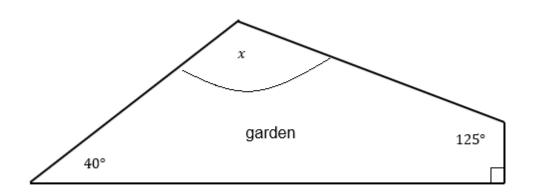
(b) Work out the size of the angle marked y



Question 3 (Calculator Level 2)

Simon is planning to build a shed in his garden.

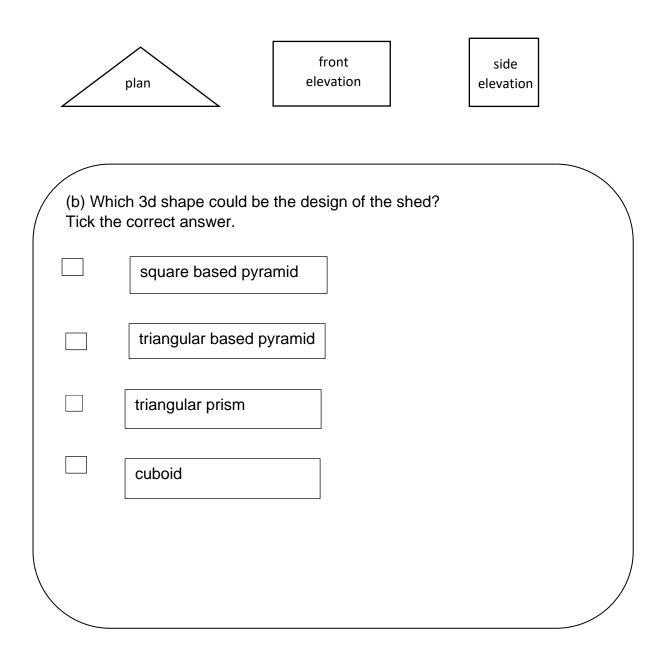
He draws a sketch of his garden.



Simon wants to put the shed where the angle x is marked. (a) Work out the size of the angle marked x.



Simon draws a sketch of the plan view, front elevation and side elevation of the shed he designs.





Question 4 (Calculator Level 1)

Here is an angle.

х

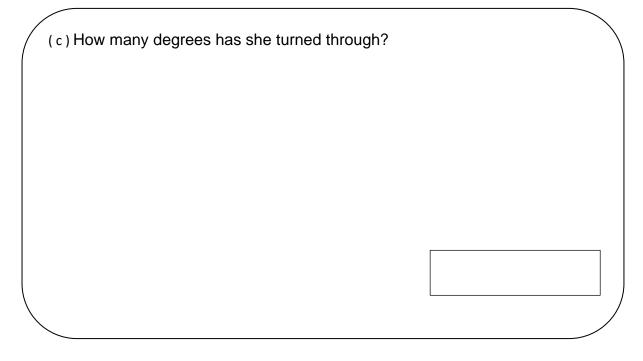
(a) Measure the size of the angle marked x.



Here is a rectangle.

(b) Draw all the lines of symmetry on this rectangle.

Tamsin is facing North. She turns to face South.





Mark Scheme

Question	Process	Mark	Mark	Evidence
			Ref	
Q1	Begins process to find angle x	1 or	Α	360 ÷ 20 (=18) oe
	Full process to find angle x	2 or	AB	'18' x 3 (=54) oe
	Accurate figure	3	ABC	54(°)
	Total marks for question	3	1	1

Question	Process	Mark	Mark Ref	Evidence
Q2(a)	Process to calculate angle	1 or	A	$(180 - 110) \div 2 (=35)$ oe
	Accurate figure	2	AB	35(°)
Q2(b)	Accurate figure	1	С	80(°)
	Total marks for question	3	1	1

Question	Process	Mark	Mark Ref	Evidence
Q3(a)	Process to find angle <i>x</i>	1 or	Α	360 - 90 - 125 - 40 (=105) oe
	Accurate figure	2	AB	105(°)
Q3(b)	Correct answer indicated	1	С	Triangular prism
	Total marks for question			·



Question	Process	Mark	Mark Ref	Evidence
Q4(a)	Accurately measured angle	1	Α	150° (+/- 2°)
Q4(b)	Draws lines of symmetry	1	В	Two lines of symmetry and no extra
Q4(c)	Correct answer	1	С	180(°)
Total marks for question		3		