

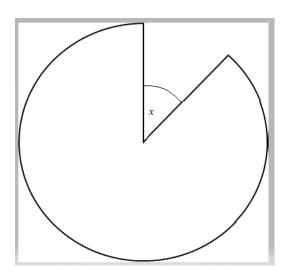
# Angles Level 1 and 2

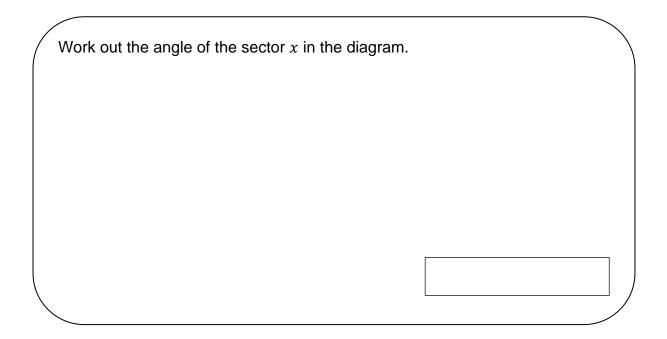
#### **Question 1 (Non-Calculator Level 2)**

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.





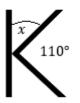


#### **Question 2 (Calculator Level 2)**

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

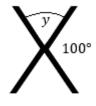
He needs to calculate the angles in each letter.

Eric knows his letter K has one line of symmetry.



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





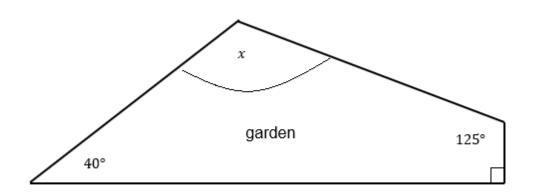
(b) Work out the size of the angle marked y



## **Question 3 (Calculator Level 2)**

Simon is planning to build a shed in his garden.

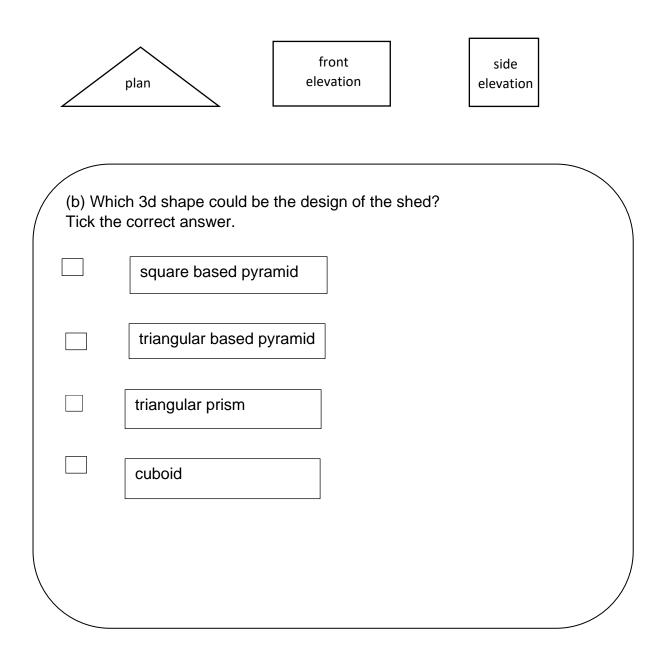
He draws a sketch of his garden.



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

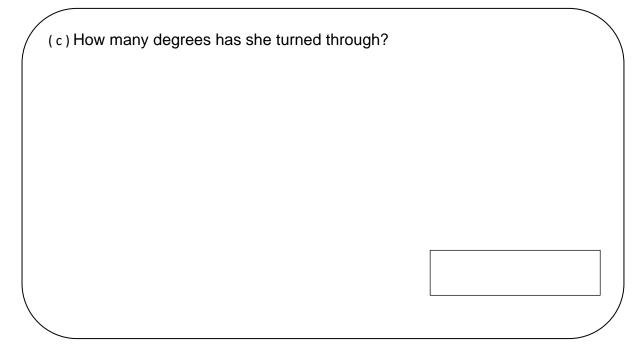
(a) Measure the size of the angle marked x.



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) <b>oe</b>
	Full process to find angle $x$	2 or	AB	'18' x 3 (=54) <b>oe</b>
	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) <b>oe</b>
	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		