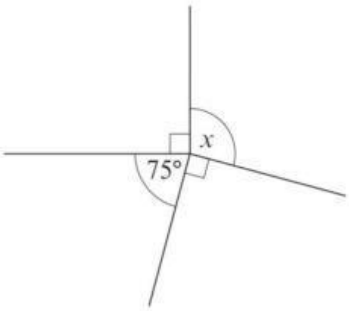
Grade 6 Maths

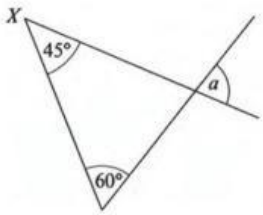
Unit 5 Review

Question 1:

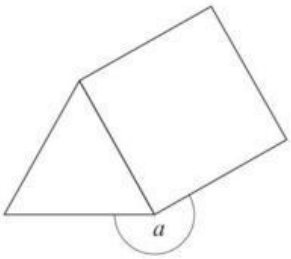
a. Work out the value of *x*.



b. Calculate the value of a

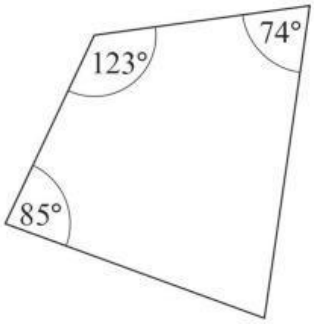


Question 2 An equilateral triangle and a square are joined together.



Work out the value of *a*.

Question 3 Work out the missing angle in this quadrilateral.



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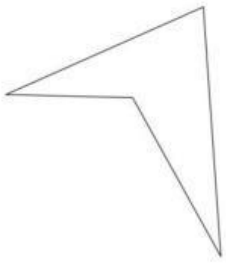
Question 4 The sum of the angles of any triangle is 180°.



Use this fact to show that the sum of the angles of this shape is 360°.

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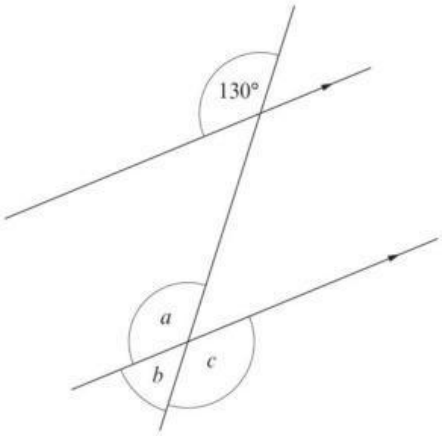
_____

Question 5 Work out the values of a, b and c.



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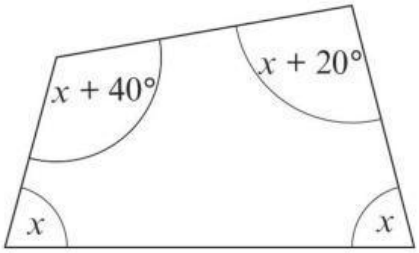
Question 6 The angles, in degrees, of this shape are x, x, $x + 20$ and $x + 40$.



a Write an equation for x. _____

b Solve the equation. _____

c Find the values of the angles of the shape. _____

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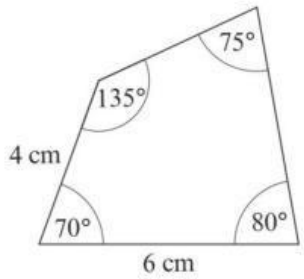
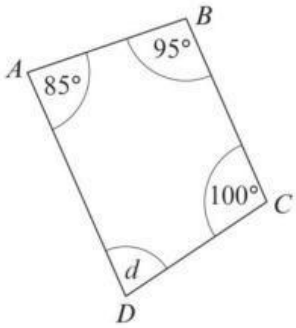
Question 7 Make an accurate drawing of this quadrilateral.



Question 8



a Find the value of *d*.

_____

b Show that two sides of the quadrilateral are parallel.

_____

_____

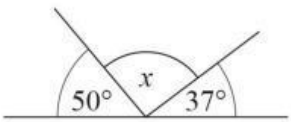
Question 9 Three of the angles of a quadrilateral are *x*.

Work out an expression for the fourth angle of the quadrilateral.

_____

_____

Question 10 Work out the value of angle *x* in this diagram.



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Question 11 Write down the order of rotational symmetry for each of these shapes.[4 marks]

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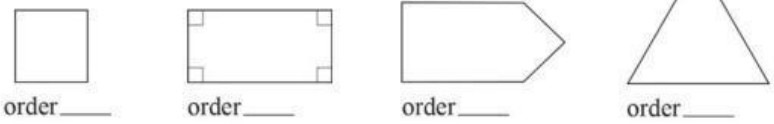
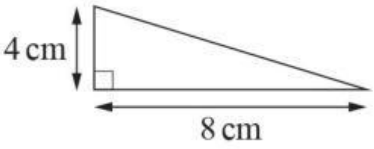
a **b** **c** **d**



order____ order____ order____ order____

Question 12

Work out the area of this triangle. [2 marks]



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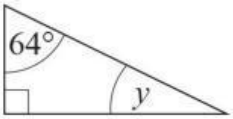
Question 13

Work out the value of angle y in this triangle. [2 marks]



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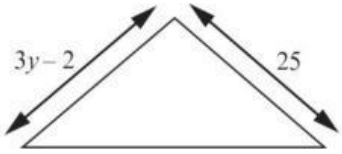
_____

Question 14

The diagram shows the lengths of the equal sides of an isosceles triangle.



a Use the information to write an equation.

_____

b Solve your equation to find the value of y.

_____

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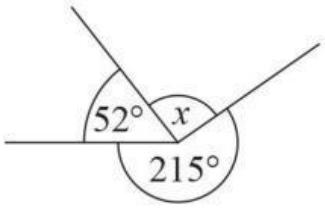
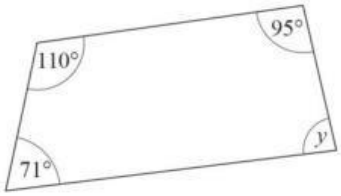
Question 15

1 Calculate the size of each lettered angle.

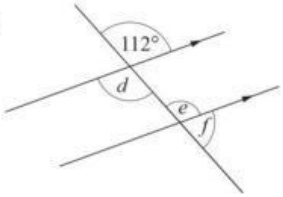
a



b



c



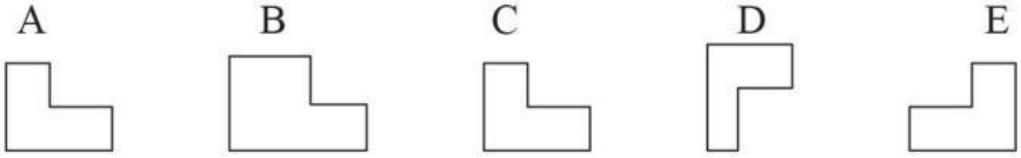
Question 16

a Draw the lines of symmetry on this shape.

b Write down the order of rotational symmetry of this shape.

order _____

c Put a tick (✓) underneath all the shapes that are congruent to shape A.



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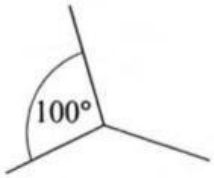
Question 17



Here are three angles. Two of the angles are equal.

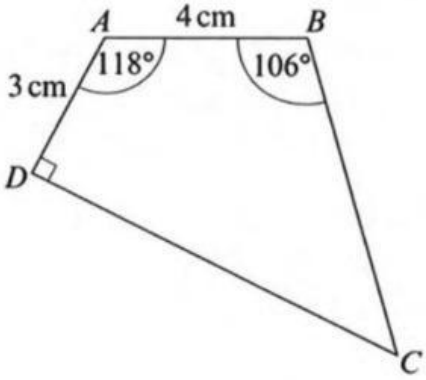
The diagram shows one angle of 100^0

Calculate the other two angles. There are two possible answer.

_____

_____

Question 17

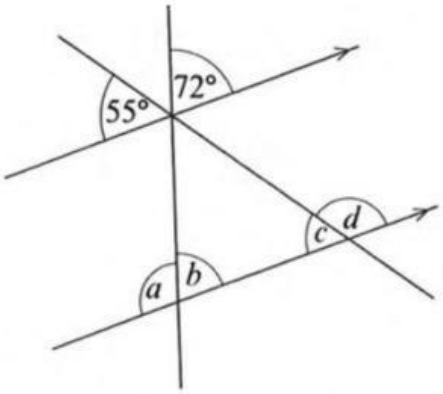


a. Calculate angle C C = _____

b. Make an accurate drawing of the quadrilateral.

c. Measure CD CD =_____

Question 17 Work out the unknown angles a,b,c and d

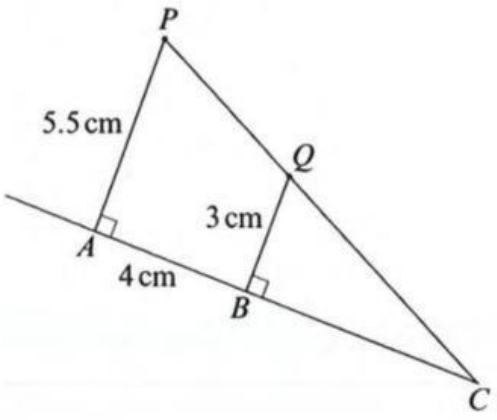


Question 18

a. Make an accurate drawing of this diagram

b. Measure angle C

_____



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