4.1 Geometry: Angles and Shapes: 10-minute Pack

Calculator allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Two straight lines PQ and RS cross at point O. Angle POR = 58 degrees. Work out the size of angle POS, giving a reason.

(2)

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2 Four angles of size 2x, 3x, 4x and x degrees meet at a point, with no other angles present. Find x, and hence work out the size of the largest angle.

(3)

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3 A straight line is split into two angles by a ray. One angle is 47 degrees. Work out the size of the other angle.

(1)

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4 Two straight lines cross. One of the angles formed is 76 degrees. Write down the size of the angle vertically opposite it.

(1)

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5 A quadrilateral has diagonals that cross at right angles and rotational symmetry of order 1.
Write down the mathematical name of the quadrilateral.

(1)

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Mark scheme · 4.1 Geometry: Angles and Shapes: 10-minute Pack

Question 1

recognise angles POR and POS lie on the straight line RS and sum to 180	**M1**
122 cao	**A1**

Answer: **122 degrees**

Question 2

form the equation 2x + 3x + 4x + x = 360, i.e. 10x = 360	**M1**
solve to get x = 36	**M1**
largest angle 144 degrees cao	**A1**

Answer: **x = 36; largest angle = 144 degrees**

Question 3

133 cao	**B1**

Answer: **133 degrees**

Question 4

76 cao	**B1**

Answer: **76 degrees**

Question 5

kite cao (accept dart)	**B1**

Answer: **kite**

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