8.8 Geometry: Properties of Shapes and Angles (Year 6): 10-minute Pack

Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A quadrilateral has three angles measuring 95 degrees, 80 degrees and 65 degrees. Find the size of the fourth angle.

(2)

2 Explain why the angles on a straight line add up to 180 degrees. Give a short reason.

(2)

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3 A rectangle has been split into two triangles by a diagonal. One triangle has angles 90 degrees and 30 degrees. Find the three angles of the other triangle formed by the same diagonal.

(2)

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4 2 identical circles are drawn in a straight row, touching each other. Each circle has a radius of 23 cm.

How long is the whole row?

Answer: ___ cm

(2)

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Mark scheme · 8.8 Geometry: Properties of Shapes and Angles (Year 6): 10-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

Add 95+80+65 = 240 seen	**M1**
360 - 240 = 120 degrees cao	**B1**

Answer: **120 degrees**

Question 2

Reference to straight line as half turn or sum of two right angles	**M1**
Conclusion that sum is 180 degrees cao	**B1**

Answer: **A straight line is a half turn (180 degrees), so angles on it add to 180 degrees**

Question 3

Recognise triangles share the diagonal and angles at rectangle corners are right angles	**M1**
Other triangle angles are 90 degrees, 60 degrees and 30 degrees cao	**B1**

Answer: **90 degrees, 60 degrees, 30 degrees**

Question 4

diameter 46 seen	**M1**
92 cm cao	**A1**

Answer: **92 cm**

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