8.6 Geometry: Angles, Shapes and Reflection: 10-minute Pack

Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A shape is reflected across a horizontal mirror line at y = 5. A vertex at (4, 2) moves under the reflection. Give the new coordinates of that vertex.

(2)

2 A rectangle has one angle marked as 90 degrees and the adjacent angle labelled x. What is the value of x?

(1)

3 Points C and D are at (0, 9) and (5, 9). Each grid square is 1 unit wide.

How far is C from D?

Answer: ___ units

(1)

4 A triangle has two angles measuring 50 degrees and 60 degrees. Work out the size of the third angle.

(1)

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5 An isosceles triangle has an angle of 26 degrees between its two equal sides.

What size is each of the other two angles?

Answer: ___ degrees

(2)

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6 A reflex angle measures 250 degrees. Calculate the smaller angle made at the same vertex (the reflex complement).

(2)

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Mark scheme · 8.6 Geometry: Angles, Shapes and Reflection: 10-minute Pack

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

Question 1

Understands reflection in y = 5 keeps the x-coordinate and reflects the y-coordinate about 5	**M1**
(4, 8) cao	**B1**

Answer: **(4, 8)**

Question 2

90 degrees cao	**B1**

Answer: **90 degrees**

Question 3

5 units cao	**B1**

Answer: **5 units**

Question 4

70 degrees cao	**B1**

Answer: **70 degrees**

Question 5

154 seen	**M1**
77 degrees cao	**A1**

Answer: **77 degrees**

Question 6

Recognises need to subtract from 360 or to find reflex complement, e.g. 360 - 250	**M1**
110 degrees cao	**B1**

Answer: **110 degrees**

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