8.4 Geometry: Shapes, Angles and Lines: 30-minute Pack

Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 An angle measures 89 degrees. Is it acute, obtuse or reflex?

Answer: ___

(1)

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2 How many vertices does a prism with a pentagonal cross-section (5 sides) have?

Answer: ___

(2)

---

3 How many faces are in a net of a square-based pyramid?

Answer: ___

(1)

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4 Angles on a straight line add up to 180 degrees. Two angles on a straight line are 67 degrees and 37 degrees. A third angle fills the rest of the line.

What is the third angle?

Answer: ___ degrees

(2)

---

5 A rectangle is 13 m long and 8 m wide.

What is its perimeter?

Answer: ___ m

(2)

---

6 A child draws a shape with five straight sides. What is the name of this 2D shape?

(1)

---

7 An angle measures 164 degrees. Is it acute, obtuse or reflex?

Answer: ___

(1)

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8 An angle measures 33 degrees. Is it acute, obtuse or reflex?

Answer: ___

(1)

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9 Angles on a straight line add up to 180 degrees. One angle is 153 degrees.

What is the other angle?

Answer: ___ degrees

(1)

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10 Angles on a straight line add up to 180 degrees. Two angles on a straight line are 47 degrees and 57 degrees. A third angle fills the rest of the line.

What is the third angle?

Answer: ___ degrees

(2)

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11 A square has sides of length 19 m.

What is its perimeter?

Answer: ___ m

Diagram NOT accurately drawn



(1)

12 An angle measures 147 degrees. Is it acute, obtuse or reflex?

Answer: ___

(1)

13 A rectangle is 7 km long and 5 km wide.

What is its perimeter?

Answer: ___ km

(2)

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14 What is the name of a polygon with 10 sides?

Answer: ___

(1)

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15 A shape has six equal square faces and looks like a dice. What 3D shape is this? Explain why each face is the same shape.

(2)

---

16 I am a quadrilateral. I have 2 lines of symmetry and 0 right angles.

What shape am I?

Answer: ___

(2)

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17 How many triangles can you make by drawing lines from one corner of a hexagon to every other corner it is not already joined to?

Answer: ___

(2)

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Mark scheme · 8.4 Geometry: Shapes, Angles and Lines: 30-minute Pack

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

Question 1

acute cao — **B1**

Answer: **acute**

Question 2

uses a rule or counts carefully — **M1**

10 cao — **A1**

Answer: **10**

Question 3

5 cao — **B1**

Answer: **5**

Question 4

104 seen — **M1**

76 degrees cao — **A1**

Answer: **76 degrees**

Question 5

adds all four sides or doubles l + w — **M1**

42 m cao — **A1**

Answer: **42 m**

Question 6

pentagon cao — **B1**

Answer: **pentagon**

Question 7

obtuse cao — **B1**

Answer: **obtuse**

Question 8

acute cao — **B1**

Answer: **acute**

Question 9

27 degrees cao — **B1**

Answer: **27 degrees**

Question 10

104 seen — **M1**

76 degrees cao — **A1**

Answer: **76 degrees**

Question 11

76 m cao — **B1**

Answer: **76 m**

Question 12

obtuse cao — **B1**

Answer: **obtuse**

Question 13

adds all four sides or doubles l + w — **M1**

24 km cao — **A1**

Answer: **24 km**

Question 14

decagon cao — **B1**

Answer: **decagon**

Question 15

Cube identified cao — **B1**

Reason that each face is a square and all faces are equal in size oe — **B1**

Answer: **Cube; all faces are squares and equal in size**

Question 16

eliminates at least one shape — **M1**

rhombus cao — **A1**

Answer: **rhombus**

Question 17

identifies the corners not already joined — **M1**

4 cao — **A1**

Answer: **4**

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