6.3 2D and 3D Shape Properties: Test Pack

STA NC-KS1-MATHS-STA · Calculators not allowed · about 60 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Look at this shape: it has three straight sides and three corners.

Write the name of the shape.

Answer: ___

(1)

---

2 I am a flat shape. It has 5 straight sides and 5 corners.

What shape am I?

Answer: ___

(1)

---

3 Freya has 2 square-based pyramids.

How many edges do they have altogether?

Answer: ___

(2)

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4 How many sides does a square have?

Answer: ___

(1)

---

5 Which flat shape has 8 sides?

Answer: ___

(1)

---

6 Ethan draws 2 hexagons and 4 octagons.

How many corners are there altogether?

Answer: ___

(2)

---

7 Look at the pattern. What comes next?

red, blue, green, red, blue, green, red, blue, green, red, ___

Answer: ___

(1)

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8 Is a stamp a 2D shape or a 3D shape?

Answer: ___

(1)

---

9 A square and a pentagon are put side by side.

Which shape has more sides, and how many more?

Answer: ___

(1)

---

10 Oscar has 4 square-based pyramids.

How many faces do they have altogether?

Answer: ___

(2)

---

11 How many sides does a pentagon have?

Answer: ___

(1)

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12 Tick the shapes that have only straight sides: triangle, circle, square.

Answer: ___

- ☐ triangle
- ☐ circle
- ☐ square

---

13 How many edges does a cube have?

Answer: ___

(1)

---

14 How do you know that a cube has six faces? Explain in one short sentence.

Answer: ___

(1)

---

15 Tom draws 3 rectangles and 2 squares.

How many corners are there altogether?

Answer: ___

(2)

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16 A cube has flat faces. What shape is one of its flat faces? (Choose the shape that is on its faces most.)

Answer: ___

(1)

---

17 Freya draws 1 hexagon and 1 pentagon.

How many sides are there altogether?

Answer: ___

(2)

---

18 Priya draws 1 octagon and 3 hexagons.

How many corners are there altogether?

Answer: ___

(2)

---

19 Femi draws 2 squares and 1 rectangle.

How many sides are there altogether?

Answer: ___

(2)

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20 I am a solid shape. I have 1 flat circle face, 1 curved surface and 1 point.

What shape am I?

Answer: ___

(1)

---

21 A pentagon and a rectangle are put side by side.

Which shape has more sides, and how many more?

Answer: ___

(1)

---

22 I am a solid shape. I have 1 curved surface. I have no edges and no corners.

What shape am I?

Answer: ___

(1)

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23 This shape has five straight sides and five corners.

Write the name of the shape.

Answer: ___

(1)

---

24 Ben has 3 square-based pyramids.

How many vertices do they have altogether?

Answer: ___

(2)

---

25 Yusuf draws 3 octagons and 4 pentagons.

How many corners are there altogether?

Answer: ___

(2)

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26 Femi draws 2 rectangles and 4 hexagons.

How many corners are there altogether?

Answer: ___

(2)

---

27 Here are some flat shapes: octagon, rectangle, circle, rectangle, circle.

How many of the shapes has 3 corners?

Answer: ___

(1)

---

28 Poppy draws 4 rectangles and 2 squares.

How many corners are there altogether?

Answer: ___

(2)

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29 Which of these is a square?

A) a shape with four equal sides
B) a circle
C) a triangle

Answer: ___

- ☐ A
- ☐ B
- ☐ C

---

30 Here are some flat shapes: pentagon, rectangle, hexagon, triangle, circle.

How many of the shapes has 4 sides?

Answer: ___

(1)

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Mark scheme · 6.3 2D and 3D Shape Properties: Test Pack

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

Question 1

triangle cao — **B1**

Answer: **triangle**

Question 2

pentagon cao — **B1**

Answer: **pentagon**

Question 3

8 edges for one square-based pyramid — **M1**

16 cao — **A1**

Answer: **16**

Question 4

4 cao — **B1**

Answer: **4**

Question 5

octagon cao — **B1**

Answer: **octagon**

Question 6

one correct product seen — **M1**

44 cao — **A1**

Answer: **44**

Question 7

blue cao — **B1**

Answer: **blue**

Question 8

2D cao — **B1**

Answer: **2D**

Question 9

pentagon, 1 more cao — **B1**

Answer: **pentagon, 1 more**

Question 10

5 faces for one square-based pyramid — **M1**

20 cao — **A1**

Answer: **20**

Question 11

5 cao — **B1**

Answer: **5**

Question 12

triangle and square ticked, circle not ticked, oe — **B1**

Answer: **triangle, square**

Question 13

12 cao — **B1**

Answer: **12**

Question 14

One short correct reason, e.g. 'A cube is made of six square faces' or 'It has a face on each side so there are 6 faces' oe — **B1**

Answer: **A cube has six square faces.**

Question 15

one correct product seen — **M1**

20 cao — **A1**

Answer: **20**

Question 16

square cao — **B1**

Answer: **square**

Question 17

one correct product seen — **M1**

11 cao — **A1**

Answer: **11**

Question 18

one correct product seen — **M1**

26 cao — **A1**

Answer: **26**

Question 19

one correct product seen — **M1**

12 cao — **A1**

Answer: **12**

Question 20

cone cao — **B1**

Answer: **cone**

Question 21

pentagon, 1 more cao — **B1**

Answer: **pentagon, 1 more**

Question 22

sphere cao — **B1**

Answer: **sphere**

Question 23

pentagon cao — **B1**

Answer: **pentagon**

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Question 24

5 vertices for one square-based pyramid	**M1**
15 cao	**A1**

Answer: **15**

Question 25

one correct product seen	**M1**
44 cao	**A1**

Answer: **44**

Question 26

one correct product seen	**M1**
32 cao	**A1**

Answer: **32**

Question 27

0 cao	**B1**

Answer: **0**

Question 28

one correct product seen	**M1**
24 cao	**A1**

Answer: **24**

Question 29

A cao	**B1**

Answer: **A**

Question 30

1 cao	**B1**

Answer: **1**

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