6.3 2D and 3D Shape Properties: 1-hour Pack

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

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

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

How many of the shapes has 4 sides?

Answer: ___

(1)

---

2 How many faces does a cube have?

Answer: ___

(1)

---

3 Here are some flat shapes: rectangle, square, pentagon, hexagon, octagon, rectangle.

How many of the shapes has exactly 4 corners?

Answer: ___

(1)

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4 Here are some flat shapes: square, circle, octagon, hexagon, circle.

How many of the shapes has exactly 4 corners?

Answer: ___

(1)

---

5 Here are some flat shapes: square, square, circle, pentagon, square.

How many of the shapes has more than 4 sides?

Answer: ___

(1)

---

6 Here are some flat shapes: triangle, octagon, rectangle, octagon, circle, hexagon, rectangle.

How many of the shapes has fewer than 5 corners?

Answer: ___

(1)

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7 Here are some flat shapes: triangle, triangle, pentagon, pentagon, triangle.

How many of the shapes has fewer than 5 corners?

Answer: ___

(1)

---

8 Look at the pattern. What comes next?

circle, square, triangle, circle, square, triangle, circle, square, ___

Answer: ___

(1)

---

9 How many edges does a sphere have?

Answer: ___

(1)

---

10 Quinn draws 1 triangle and 1 hexagon.

How many sides are there altogether?

Answer: ___

(2)

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11 How many faces does a cylinder have? (Count the flat faces only.)

Answer: ___

(1)

---

12 Bella has 4 cubes.

How many edges do they have altogether?

Answer: ___

(2)

---

13 Sofia has 5 cylinders.

How many vertices do they have altogether?

Answer: ___

(2)

---

14 Willow draws 4 squares and 1 triangle.

How many corners are there altogether?

Answer: ___

(2)

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15 Here are some flat shapes: pentagon, hexagon, triangle, octagon, hexagon.

How many of the shapes has 4 sides?

Answer: ___

(1)

---

16 Here are some flat shapes: pentagon, octagon, pentagon, pentagon, hexagon.

How many of the shapes has no corners?

Answer: ___

(1)

---

17 Which flat shape has 6 corners?

Answer: ___

(1)

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18 Here are some flat shapes: rectangle, pentagon, rectangle, circle, triangle, circle, octagon.

How many of the shapes has more than 4 sides?

Answer: ___

(1)

---

19 A square-based pyramid has 5 faces (1 square and 4 triangles).

How many edges does a square-based pyramid have?

Answer: ___

(1)

---

20 How many vertices (corners) does a square-based pyramid have?

Answer: ___

(1)

---

21 Ravi has 4 cones.

How many vertices do they have altogether?

Answer: ___

(2)

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22 Femi has 2 triangular prisms.

How many edges do they have altogether?

Answer: ___

(2)

---

23 Here are some flat shapes: circle, triangle, triangle, pentagon, triangle.

How many of the shapes has more than 4 sides?

Answer: ___

(1)

---

24 A octagon and a triangle are put side by side.

Which shape has more sides, and how many more?

Answer: ___

(1)

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25 Look at the pattern. What comes next?

circle, square, circle, square, circle, ___

Answer: ___

(1)

---

26 Tom draws 3 rectangles and 2 hexagons.

How many corners are there altogether?

Answer: ___

(2)

---

27 How many vertices (corners) does a triangle have?

Answer: ___

(1)

---

28 Here are some flat shapes: rectangle, triangle, octagon, square, circle, rectangle.

How many of the shapes has 3 corners?

Answer: ___

(1)

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29 This shape has four equal straight sides and four corners.

Write the name of the shape.

Answer: ___

(1)

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30 Is a traffic cone a 2D shape or a 3D shape?

Answer: ___

(1)

---

31 How many vertices (corners) does a cube have?

Answer: ___

(1)

---

32 Here are some flat shapes: pentagon, hexagon, octagon, square, hexagon, triangle.

How many of the shapes has 4 sides?

Answer: ___

(1)

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33 Here are some flat shapes: circle, hexagon, octagon, rectangle, hexagon, circle, rectangle.

How many of the shapes has 3 corners?

Answer: ___

(1)

---

34 Freya has 4 cuboids.

How many edges do they have altogether?

Answer: ___

(2)

---

35 I am a solid shape. I have 6 faces. All my faces are squares.

What shape am I?

Answer: ___

(1)

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Mark scheme · 6.3 2D and 3D Shape Properties: 1-hour Pack

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

Question 1

3 cao — **B1**

Answer: **3**

Question 2

6 cao — **B1**

Answer: **6**

Question 3

3 cao — **B1**

Answer: **3**

Question 4

1 cao — **B1**

Answer: **1**

Question 5

1 cao — **B1**

Answer: **1**

Question 6

4 cao — **B1**

Answer: **4**

Question 7

3 cao — **B1**

Answer: **3**

Question 8

triangle cao — **B1**

Answer: **triangle**

Question 9

0 cao — **B1**

Answer: **0**

Question 10

one correct product seen — **M1**

9 cao — **A1**

Answer: **9**

Question 11

2 cao — **B1**

Answer: **2**

Question 12

12 edges for one cube — **M1**

48 cao — **A1**

Answer: **48**

Question 13

0 vertices for one cylinder — **M1**

0 cao — **A1**

Answer: **0**

Question 14

one correct product seen — **M1**

19 cao — **A1**

Answer: **19**

Question 15

0 cao — **B1**

Answer: **0**

Question 16

0 cao — **B1**

Answer: **0**

Question 17

hexagon cao — **B1**

Answer: **hexagon**

Question 18

2 cao — **B1**

Answer: **2**

Question 19

8 cao — **B1**

Answer: **8**

Question 20

5 cao — **B1**

Answer: **5**

Question 21

1 vertices for one cone — **M1**

4 cao — **A1**

Answer: **4**

Question 22

9 edges for one triangular prism — **M1**

18 cao — **A1**

Answer: **18**

Question 23

1 cao — **B1**

Answer: **1**

Question 24

octagon, 5 more cao — **B1**

Answer: **octagon, 5 more**

Question 25

square cao — **B1**

Answer: **square**

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Question 26

one correct product seen	M1
24 cao	A1

Answer: **24**

Question 27

3 cao	B1

Answer: **3**

Question 28

1 cao	B1

Answer: **1**

Question 29

square cao	B1

Answer: **square**

Question 30

3D cao	B1

Answer: **3D**

Question 31

8 cao	B1

Answer: **8**

Question 32

1 cao	B1

Answer: **1**

Question 33

0 cao	B1

Answer: **0**

Question 34

12 edges for one cuboid	M1
48 cao	A1

Answer: **48**

Question 35

cube cao	B1

Answer: **cube**

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