6.3 2D and 3D Shape Properties: 30-minute Pack

STA NC-KS1-MATHS-STA · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Oscar has 3 square-based pyramids.

How many edges do they have altogether?

Answer: ___

(2)

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2 Priya draws 3 triangles and 3 hexagons.

How many corners are there altogether?

Answer: ___

(2)

---

3 Ivan draws 4 squares and 4 octagons.

How many sides are there altogether?

Answer: ___

(2)

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4 Name these 3-D shapes.

Write the name for each.

(a) a box with six square faces **(1)**

(b) a round ball **(1)**

(c) a shape with two circles and a curved side like a drum **(1)**

(d) a shape with a point and a round base like an ice cream cone **(1)**

(e) a shape with a square base and four triangular faces meeting at a point **(1)**

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5 Yusuf draws 3 hexagons and 3 triangles.

How many corners are there altogether?

Answer: ___

(2)

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6 Hana draws 1 octagon and 1 hexagon.

How many corners are there altogether?

Answer: ___

(2)

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

How many of the shapes has exactly 4 corners?

Answer: ___

(1)

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8 Look at the pattern. What comes next?

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

Answer: ___

(1)

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9 Hassan has 5 cuboids.

How many edges do they have altogether?

Answer: ___

(2)

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10 A triangle and a pentagon are put side by side.

Which shape has more corners, and how many more?

Answer: ___

(1)

---

11 Which flat shape has 3 corners?

Answer: ___

(1)

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12 I am a solid shape. I have 2 flat circle faces and 1 curved surface.

What shape am I?

Answer: ___

(1)

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Mark scheme · 6.3 2D and 3D Shape Properties: 30-minute Pack

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

Question 1

8 edges for one square-based pyramid	M1
24 cao	A1

Answer: **24**

Question 2

one correct product seen	M1
27 cao	A1

Answer: **27**

Question 3

one correct product seen	M1
48 cao	A1

Answer: **48**

Question 4

(a) cube cao	B1

(a) Answer: **cube**

(b) sphere cao	B1

(b) Answer: **sphere**

(c) cylinder cao	B1

(c) Answer: **cylinder**

(d) cone cao	B1

(d) Answer: **cone**

(e) square-based pyramid cao (accept 'pyramid')	B1

(e) Answer: **square-based pyramid**

Question 5

one correct product seen	M1
27 cao	A1

Answer: **27**

Question 6

one correct product seen	M1
14 cao	A1

Answer: **14**

Question 7

1 cao	B1

Answer: **1**

Question 8

square cao	B1

Answer: **square**

Question 9

12 edges for one cuboid	M1
60 cao	A1

Answer: **60**

Question 10

pentagon, 2 more cao	B1

Answer: **pentagon, 2 more**

Question 11

triangle cao	B1

Answer: **triangle**

Question 12

cylinder cao	B1

Answer: **cylinder**

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