



KS1.M37 2D and 3D Shape Properties

STA NC-KS1-MATHS-STA · Calculators not allowed · about 30 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** This shape has four equal straight sides and four corners.

Write the name of the shape.

Answer: ____



(1)

- 3** This shape has four straight sides but two longer and two shorter sides.

Write the name of the shape.

Answer: ____



(1)

- 4** This shape is round with no straight sides.

Write the name of the shape.

Answer: ____



(1)

-
- 5** This shape has six straight sides and six corners.

Write the name of the shape.

Answer: ____



(1)

-
- 6** This shape has five straight sides and five corners.

Write the name of the shape.

Answer: ____



(1)

-
- 7** A pentagon has five sides.

Write how many sides a pentagon has.

Answer: ____



(1)

8 A rectangle has four corners.

Write how many vertices (corners) a rectangle has.

Answer: ____

(1)

9 Which of these is a square?

A) a shape with four equal sides

B) a circle

C) a triangle

Answer: ____

☐ A

☐ B

☐ C

10 How many sides does a hexagon have?

Answer: ____

(1)

11 Name these 3-D shapes.

- a) a box with six square faces
- b) a round ball
- c) a shape with two circles and a curved side like a drum
- d) a shape with a point and a round base like an ice cream cone
- e) a shape with a square base and four triangular faces meeting at a point

Write the name for each: a) ____ b) ____ c) ____ d) ____ e) ____

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



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



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



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



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



12 How many faces does a cube have?

Answer: ____



(1)

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

Answer: ____



(1)

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

How many edges does a square-based pyramid have?

Answer: ____



(1)

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

Answer: ____

- ☐ triangle
- ☐ circle
- ☐ square

16 How many edges does a cube have?

Answer: ____

(1)

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

Answer: ____

(1)

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

Answer: ____

(1)

Mark scheme · KS1.M37 2D and 3D Shape Properties

Question 1

- **B1** triangle cao
- Answer: **triangle**

Question 2

- **B1** square cao
- Answer: **square**

Question 3

- **B1** rectangle cao
- Answer: **rectangle**

Question 4

- **B1** circle cao
- Answer: **circle**

Question 5

- **B1** hexagon cao
- Answer: **hexagon**

Question 6

- **B1** pentagon cao
- Answer: **pentagon**

Question 7

- **B1** 5 cao
- Answer: **5**

Question 8

- **B1** 4 cao
- Answer: **4**

Question 9

- **B1** A cao
- Answer: **A**

Question 10

- **B1** 6 cao
- Answer: **6**

Question 11

- (a) **B1** cube cao
- (a) Answer: **cube**
- (b) **B1** sphere cao
- (b) Answer: **sphere**
- (c) **B1** cylinder cao
- (c) Answer: **cylinder**
- (d) **B1** cone cao
- (d) Answer: **cone**
- (e) **B1** square-based pyramid cao (accept 'pyramid')
- (e) Answer: **square-based pyramid**

Question 12

- B1 6 cao
- Answer: **6**

Question 13

- B1 2 cao
- Answer: **2**

Question 14

- B1 8 cao
- Answer: **8**

Question 15

- B1 triangle and square ticked, circle not ticked, oe
- Answer: **triangle, square**

Question 16

- B1 12 cao
- Answer: **12**

Question 17

- B1 3 cao
- Answer: **3**

Question 18

- B1 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
- Answer: **A cube has six square faces.**