Mathematics · Grade 4

Space and Shape

Term 1–4 | 8 questions | CAPS-aligned

TOTAL 48 MARKS

NAME AND SURNAME _____ CLASS _____ DATE _____

Instructions

1. Read all the questions carefully before you begin writing.
2. Answer all the questions on the question paper itself.
3. Show all your working where the question asks for it.
4. Write neatly. Work that cannot be read cannot be marked.
5. You may use a pencil and a ruler for drawings.
6. Calculators are not allowed.

Question	Content of the question	Marks	Obtained
1	Multiple choice	4	
2	Matching	4	
3	2D shapes and 3D objects	6	
4	2D shapes and symmetry	7	
5	Views and position	3	
6	Patterns in nature and our heritage	3	
7	Straight and curved lines, and tessellations	7	
8	Shapes, faces and symmetry	14	
	Total	**48**	
	Percentage		%

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1 Multiple choice

4 marks

Choose the correct answer and circle its letter.

PRACTICE EXAMPLE · DO THIS ONE TOGETHER FIRST

Which shape has 4 sides of equal length?

a A triangle b A square c A circle

A square has four sides of equal length, so the answer is b. Circle the b.

This example does not count for marks. It only shows you how to answer.

1.1 Which shape is a quadrilateral? **(1)**

(a) Triangle (b) Rectangle (c) Circle

1.2 How many flat faces does a cube have? **(1)**

(a) 4 (b) 8 (c) 6

1.3 How many corners does a triangle have? **(1)**

(a) 3 (b) 2 (c) 4

1.4 Which 3D object has only one flat face and one point? **(1)**

(a) A cube (b) A cone (c) A cylinder

2 Matching

4 marks

Match the description in COLUMN A with the correct word in COLUMN B. Write only the LETTER. One word is left over.

2.1 **(4)**

COLUMN A	COLUMN B	Answer
1. A flat shape with three sides	A. Cylinder	1 = _____
2. A 3D object like a ball	B. Line of symmetry	2 = _____
3. A line that divides a shape into two equal halves	C. Corner	3 = _____
4. Where two sides of a shape meet	D. Sphere	4 = _____
	E. Triangle	

3 2D shapes and 3D objects

6 marks

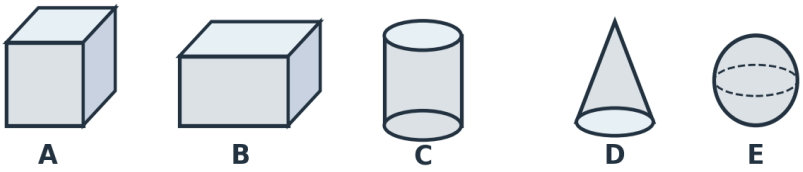
3.1 Look at the shapes below and answer the questions. **(2)**



a. How many sides does shape D have? _____

b. Which shape is a quadrilateral? Write only the letter. _____

3.2 Look at the 3D objects below and name objects A, C and E. **(3)**



A: _____ C: _____ E: _____

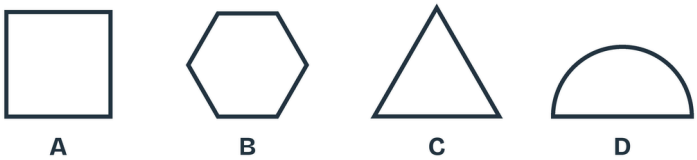
3.3 Which one of the 3D objects above has no flat face? Write only the letter. **(1)**

_____

4 2D shapes and symmetry

7 marks

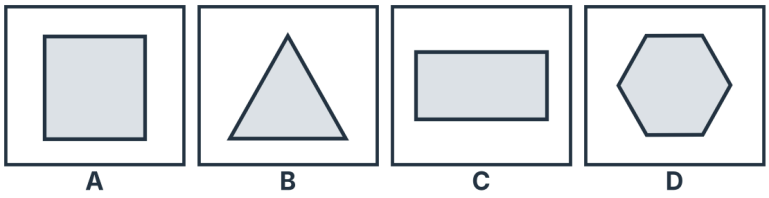
4.1 Name the shapes A to D below. **(4)**



A: _____ B: _____

C: _____ D: _____

4.2 How many lines of symmetry does each shape below have? **(3)**

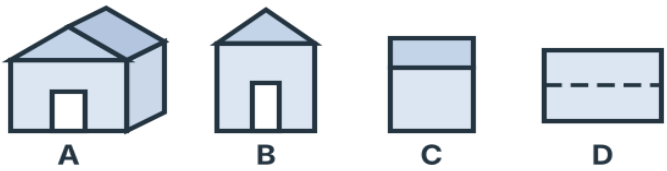


A: _____ B: _____ C: _____ D: _____

5 Views and position

3 marks

5.1 Study the model house A below. Which view is B, which is C and which is D? **(3)**



_____

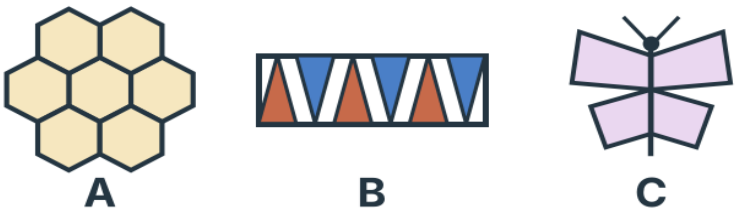
_____

_____

6 Patterns in nature and our heritage

3 marks

6.1 Look at the pictures. a. Which 2D shape is repeated in the honeycomb (A)? b. Which 2D shape is repeated in the beadwork (B)? c. How many lines of symmetry does the butterfly (C) have? **(3)**



a: _____ b: _____ c: _____

7 Straight and curved lines, and tessellations

7 marks

7.1 Write next to each shape whether it has only STRAIGHT lines, only CURVED lines or BOTH. **(4)**

Shape	Straight / Curved / Both
Circle	
Pentagon	
Quarter circle	
Rectangle	

7.2 What is a TESSELLATION? **(1)**

7.3 Which one of these shapes can NOT tessellate without gaps: a square, a triangle or a circle? **(1)**

7.4 Name ONE place where you see a tessellation in everyday life. **(1)**

8 Shapes, faces and symmetry

14 marks

8.1 Write next to each shape how many SIDES it has. **(4)**

Shape	Sides
Triangle	
Rectangle	
Pentagon	
Quadrilateral	

8.2 Write next to each 3D object how many FLAT FACES it has. **(3)**

Object	Flat faces
Rectangular prism	
Cylinder	
Cone	

8.3 How many lines of symmetry does the capital letter A have, and how many does a circle have? **(2)**

8.4 Use the grid below (columns A to E, rows 1 to 5; row 1 is at the bottom). Start at A1 and move 3 blocks to the right and then 2 blocks up. Which block do you land on? **(2)**

5					
4					
3					
2					
1					
	A	B	C	D	E

8.5 Name THREE places in everyday life where you see symmetry. **(3)**

Total **48 marks**



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