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PRACTICE TEST

Practice test · Term 1–4
Version 1.8 · 22 October 2026

Mathematics · Grade 6

Space and Shape

Term 1–4 | 9 questions | CAPS-aligned

TOTAL
55
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	5	
2	Matching	4	
3	Patterns, pyramids and symmetry	8	
4	Position on a map	4	
5	2D shapes	6	
6	3D objects	4	
7	Reductions and views	5	
8	Drawing and the properties of 2D shapes	7	
9	Shapes, angles and views	12	
	Total	**55**	
	Percentage		%

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1 Multiple choice

5 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 An angle of exactly one full turn is called _____. **(1)**

(a) a revolution (b) an acute angle (c) an obtuse angle

1.2 Which 3D object has 2 circular flat faces? **(1)**

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

1.3 An angle smaller than a quarter turn is called a _____. **(1)**

(a) right angle (b) obtuse angle (c) acute angle

1.4 A net made of 6 equal squares can be folded into a: **(1)**

(a) cube (b) square-based pyramid (c) triangular prism

1.5 How many edges does a square-based pyramid have? **(1)**

(a) 5 (b) 8 (c) 4

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.

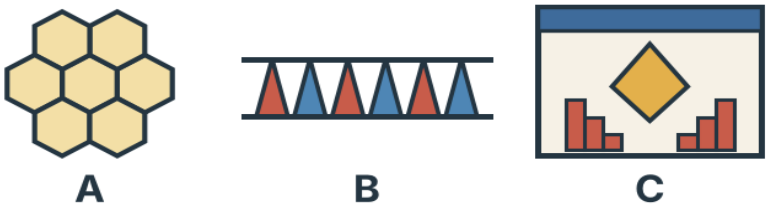
2.1 **(4)**

COLUMN A	COLUMN B	Answer
1. An angle of exactly a quarter turn	A. Rotation	1 = _____
2. An angle bigger than a quarter turn but smaller than a half turn	B. Translation	2 = _____
3. To turn a shape around a point	C. Obtuse angle	3 = _____
4. To mirror a shape across a line	D. Right angle	4 = _____
	E. Reflection	

3 Patterns, pyramids and symmetry

8 marks

3.1 Look at the pictures A, B and C. a. Which 2D shape is repeated in the honeycomb (A)? b. Are these shapes regular or irregular polygons? c. How was the triangle moved to make the beadwork band (B): by a translation, a reflection or a rotation? d. How many lines of symmetry does the Ndebele wall design (C) have? **(4)**



A B C

a. _____ b. _____

c. _____ d. _____

3.2 a. What shape is the base of a tetrahedron? b. How many faces does a tetrahedron have? c. Give ONE difference between a tetrahedron and a square-based pyramid. **(3)**

a. _____ b. _____

c. _____

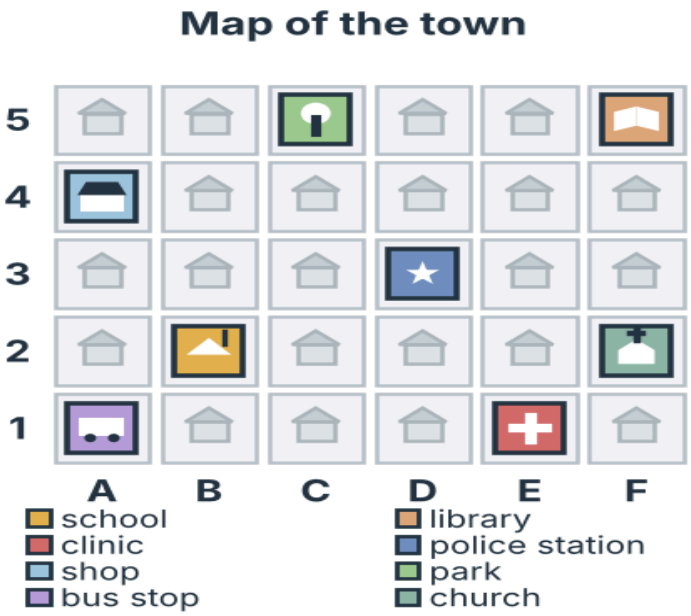
3.3 How many lines of symmetry does a regular hexagon have? **(1)**

_____

4 Position on a map

4 marks

4.1 Look at the map of the town below. a. In which block is the park? b. What is in block F2? **(2)**



a. _____ b. _____

4.2 Nomsa starts at the shop. She walks 3 blocks to the right and 1 block down. In which block is she now, and what is there? **(2)**

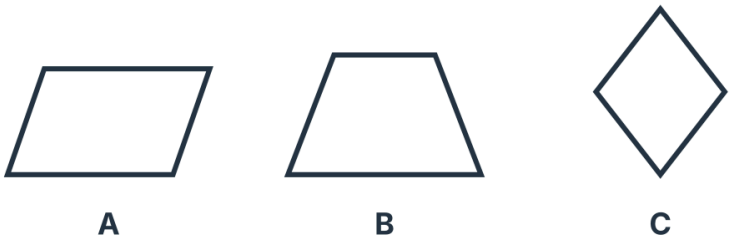
_____

_____

5 2D shapes

6 marks

5.1 Look at the quadrilaterals A, B and C below. a. Which TWO shapes have two pairs of parallel sides? b. Which shape has only ONE pair of parallel sides? c. Shape C has four equal sides. Is it a square? Give a reason. d. Is shape A a regular or an irregular polygon? **(4)**



a. _____ b. _____

c. _____

d. _____

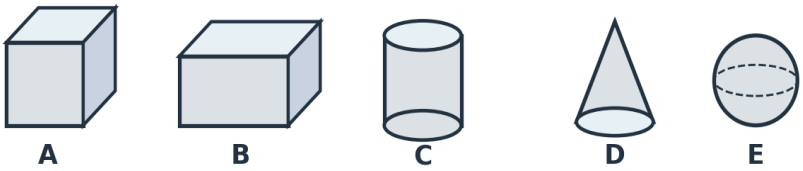
5.2 How many lines of symmetry does a square have? **(1)**

5.3 What is the difference between a square and a rectangle? **(1)**

6 3D objects

4 marks

6.1 Name object B and object D below. How many flat faces does object A have? **(3)**



B: _____ D: _____ Flat faces of A: _____

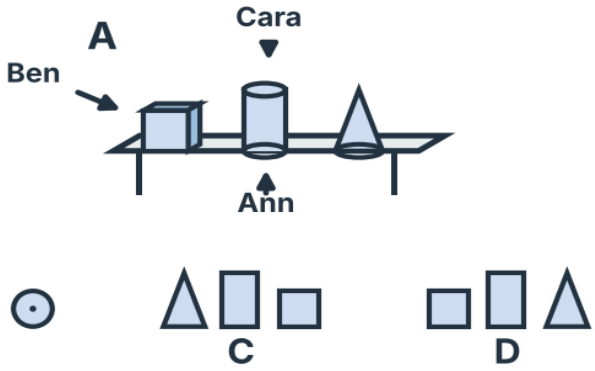
6.2 Which 3D object has no flat face? **(1)**

7 Reductions and views

5 marks

7.1 Rectangle P is 8 cm long and 4 cm wide. Jabu draws a reduction of P in which every side is half as long. a. What are the length and the width of the reduction? b. Is the reduction still a rectangle? Give a reason. **(2)**

7.2 A cube, a cylinder and a cone stand in a row on a table (picture A). Ann stands in FRONT of the table, Ben stands BEHIND the table and Cara looks down from the TOP. Which drawing (B, C or D) shows what each child sees? **(3)**



Ann: ____ Ben: ____ Cara: ____

8 Drawing and the properties of 2D shapes

7 marks

8.1 Use your ruler and draw a triangle with sides of 4 cm, 4 cm and 6 cm. Write the length next to each side. **(2)**

8.2 What kind of triangle is it? Give a reason. **(1)**

8.3 Complete the table. **(4)**

Shape	Sides	Vertices
Triangle		
Quadrilateral		
Pentagon		
Heptagon		

9 Shapes, angles and views

12 marks

9.1 Write the kind of angle next to each description. **(4)**

Description	Kind of angle
exactly one full turn	
bigger than a right angle but smaller than a straight angle	
bigger than a straight angle but smaller than a full turn	
smaller than a right angle	

9.2 Complete the table for a rectangular prism and a triangular prism. **(4)**

Object	Faces	Edges	Vertices
Rectangular prism			
Triangular prism			

9.3 What is the difference between a parallelogram and a rectangle? **(2)**

9.4 You look from ABOVE at a cylinder standing upright. What shape do you see? And from the SIDE? **(2)**

Total **55 marks**



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