Mathematics · Grade 5

Space and Shape

Term 1–4 | 9 questions | CAPS-aligned

TOTAL 53 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	2D shapes, 3D objects and symmetry	7	
4	2D and 3D shapes	7	
5	Patterns in our world	3	
6	Views and position	3	
7	Composite shapes	3	
8	Angles, shapes, position and nets	16	
9	Comparing angles	5	
	Total	**53**	
	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 Which 3D object has NO flat faces? **(1)**

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

1.2 How many lines of symmetry does a kite have? **(1)**

(a) 1 (b) 2 (c) 4

1.3 How many faces does a square-based pyramid have? **(1)**

(a) 4 (b) 5 (c) 6

1.4 Which 3D object has exactly ONE flat face? **(1)**

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

1.5 Which shape can NOT be used on its own to make a tessellation? **(1)**

(a) A square (b) A regular hexagon (c) A circle

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.

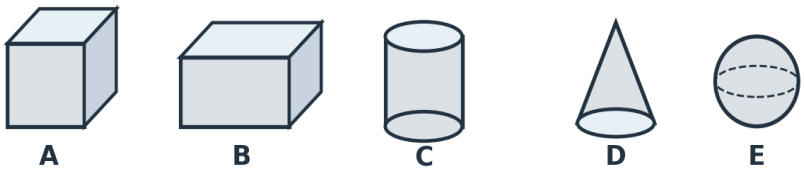
2.1 **(4)**

COLUMN A	COLUMN B	Answer
1. A flat shape with six sides	A. Cone	1 = _____
2. A 3D object like a tin can	B. Line of symmetry	2 = _____
3. A line that divides a shape into two equal halves	C. Translation	3 = _____
4. To slide a shape without turning it	D. Cylinder	4 = _____
	E. Hexagon	

3 2D shapes, 3D objects and symmetry

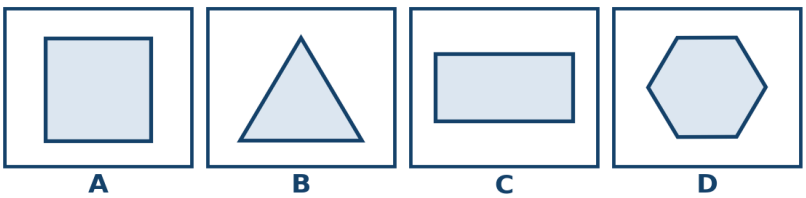
7 marks

3.1 Name the 3D objects A, C and E below. **(3)**



A: _____ C: _____ E: _____

3.2 Write next to each shape how many lines of symmetry it has. **(4)**



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

4 2D and 3D shapes

7 marks

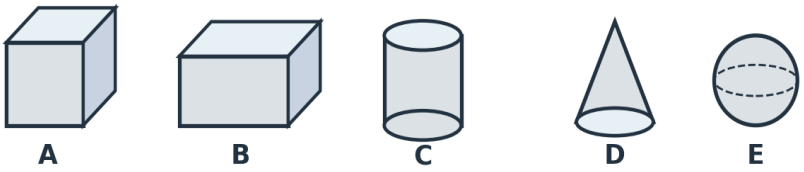
4.1 Name the shapes A to D below. **(4)**



A: _____ B: _____

C: _____ D: _____

4.2 Name object B and object D below, and then write down how many flat faces object B has. **(3)**



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

5 Patterns in our world

3 marks

5.1 Look at the pictures. a. Which 2D shape is repeated in the beadwork band (A)? b. How was this shape moved to make the band: by a translation, a reflection or a rotation? c. How many lines of symmetry does the butterfly (B) have? **(3)**

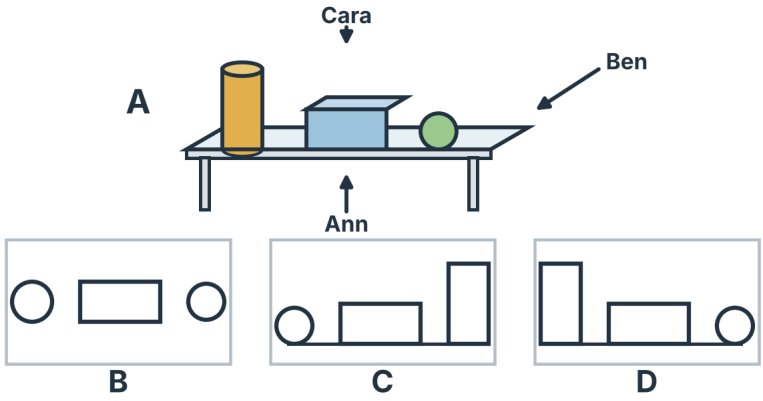


a. _____ b. _____ c. _____

6 Views and position

3 marks

6.1 A tin, a box and a ball 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)**

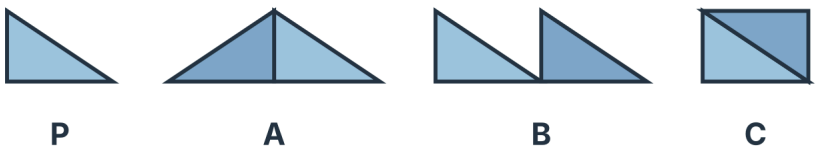


Ann: _____ Ben: _____ Cara: _____

7 Composite shapes

3 marks

7.1 Each shape A, B and C was made from two copies of triangle P. How was the second copy moved: by a translation, a reflection or a rotation? **(3)**



A: _____ B: _____ C: _____

8 Angles, shapes, position and nets

16 marks

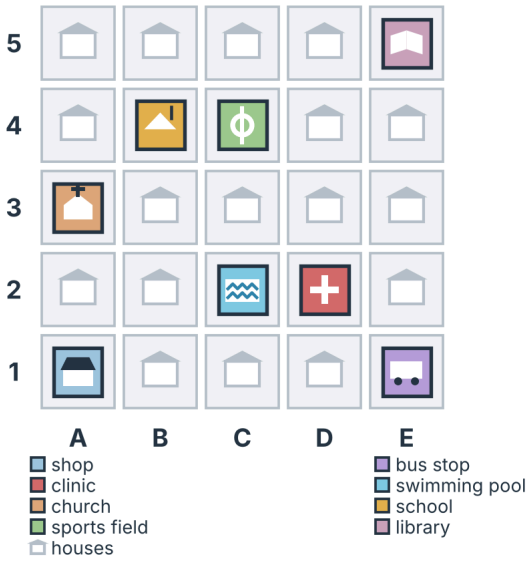
8.1 Look at the angle between the hands of a clock at each time. Write next to each time whether the angle is SMALLER THAN a right angle, a RIGHT ANGLE or BIGGER THAN a right angle. **(3)**

Time	The angle is
1 o'clock	
5 o'clock	
3 o'clock	

8.2 a. How many sides does a HEPTAGON have? b. A shape has 5 sides that are all different lengths. Is it a REGULAR or an IRREGULAR pentagon? **(2)**

8.3 Name TWO ways a square and a rectangle are the same, and ONE way they differ. **(3)**

8.4 Look at the map of the town below. a. In which block is the swimming pool? b. What is in block A3? c. Start at the bus stop. Walk 4 blocks up. In which block are you, and what is there? **(4)**

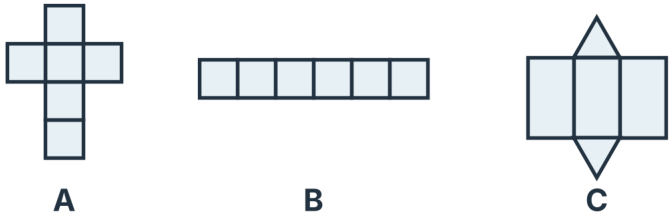


a. _____

b. _____

c. _____

8.5 Look at the nets A, B and C below. **(4)**



a. Which net can be folded to make a cube? _____

b. Which 3D object can be made by folding net C? _____

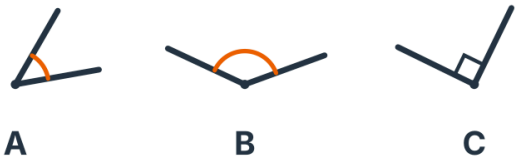
c. Net B also has 6 squares. Why can it NOT be folded into a cube? _____

d. What shape are the faces of a cube? _____

9 Comparing angles

5 marks

9.1 Look at the angles below. Write "is smaller than", "is equal to" or "is bigger than" in each sentence. **(3)**



a. Angle A _____ a right angle.

b. Angle B _____ a right angle.

c. Angle C _____ a right angle.

9.2 Look at the four angles below. **(2)**



a. Which angle is a right angle? _____

b. Which angle is BIGGER than a right angle? _____

Total **53 marks**



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