Mathematics · Grade 6

Space, Measurement and Data Handling

Term 1–4 | 10 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	6	
2	Enlargements	4	
3	2D shapes	6	
4	3D objects	4	
5	Perimeter, area and volume	9	
6	Double bar graph	5	
7	Measurement	4	
8	Time	7	
9	Data handling	5	
10	Transformations and views	5	
	Total	**55**	
	Percentage		%

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1 Multiple choice

6 marks

Choose the correct answer and circle the letter.

1.1 An angle smaller than a right angle is called a _____. **(1)**

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

1.2 How many sides does a pentagon have? **(1)**

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

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

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

1.4 One kilogram is how many grams? **(1)**

(a) 100 g (b) 1 000 g (c) 10 000 g

1.5 The correct digital time for "fifteen minutes past seven in the evening" is: **(1)**

(a) 07:15 (b) 19:45 (c) 19:15

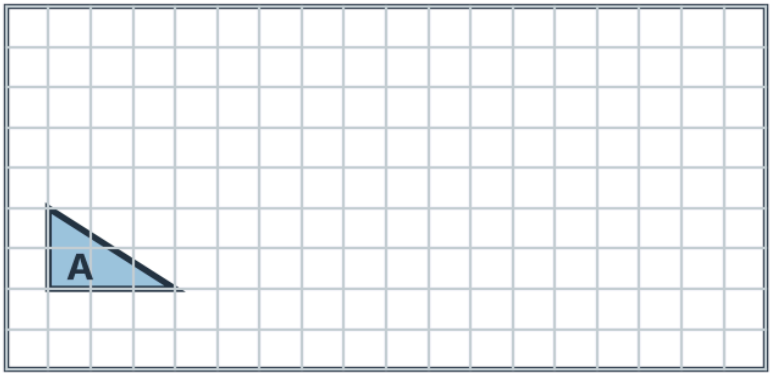
1.6 The area of a rectangle is calculated with: **(1)**

(a) length × width (b) length + width (c) 2(length + width)

2 Enlargements

4 marks

2.1 Triangle A is drawn on the grid below. On the same grid, draw an enlargement of triangle A in which every side is TWICE as long. **(2)**



2.2 Compare your enlargement with triangle A. Write ONE thing that stays the same and ONE thing that changes. **(2)**

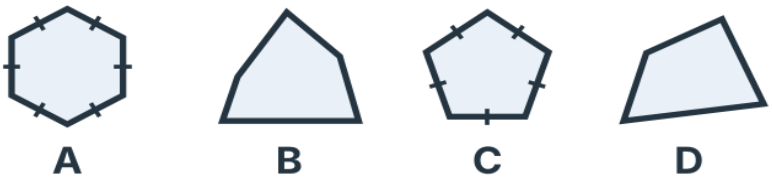
_____

_____

3 2D shapes

6 marks

3.1 Look at the shapes A, B, C and D below. a. Name shape A and shape B. b. Which TWO shapes are regular polygons? c. Shape D is a quadrilateral. Is it a regular or an irregular polygon? Give a reason. **(4)**



a. A: _____ B: _____

b. _____

c. _____

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

_____

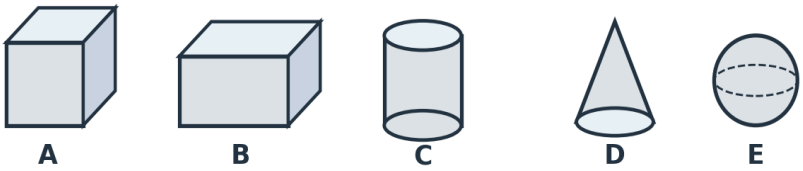
3.3 What is the difference between a square and a rectangle? **(1)**

_____

4 3D objects

4 marks

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



A: _____ C: _____ E: _____

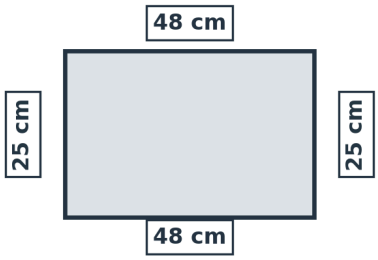
4.2 Which 3D object has no flat face? **(1)**

_____

5 Perimeter, area and volume

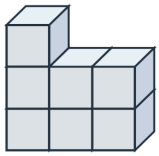
9 marks

5.1 Calculate the PERIMETER and the AREA of the rectangle below. **(4)**



Perimeter: _____ Area: _____

5.2 The figure below is built from unit cubes. Determine the volume. **(2)**



Volume = _____ cubic units

5.3 The perimeter of a square is 48 cm. Calculate the area. **(3)**

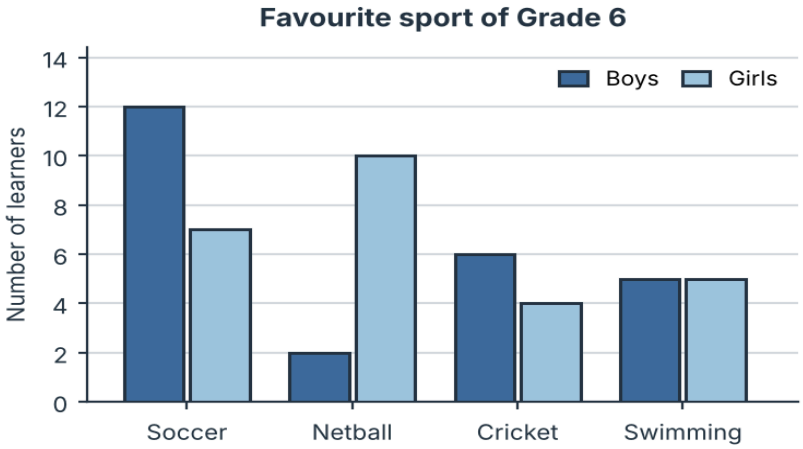
_____

_____

6 Double bar graph

5 marks

6.1 The double bar graph shows the favourite sport of the boys and the girls in Grade 6. Which sport is the most popular with the girls? **(1)**



_____

6.2 a. How many boys chose soccer? b. How many more girls than boys chose netball? **(2)**

a. _____ b. _____

6.3 a. Which sport was chosen by the same number of boys and girls? b. How many learners were asked altogether? **(2)**

a. _____ b. _____

7 Measurement

4 marks

7.1 Convert: 4,5 km = _____ m **(1)**

7.2 Convert: 2 350 g = _____ kg **(1)**

7.3 Convert: 3 ℓ = _____ mℓ **(1)**

7.4 Convert: 75 cm = _____ mm **(1)**

8 Time

7 marks

8.1 Look at the clock below and write down the time. **(3)**



a. What time does the clock show? _____

b. Write this evening time in 24-hour time. _____

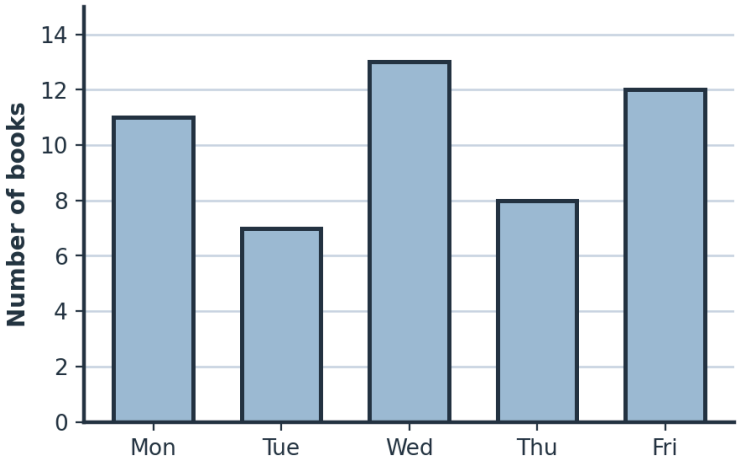
8.2 A film starts at 18:40 and lasts 2 hours and 25 minutes. What time does it end? **(2)**

8.3 How many days are there from 12 March to 3 April? **(2)**

9 Data handling

5 marks

9.1 The bar graph shows how many books Grade 6 borrowed each day. Answer the questions. **(5)**



a. How many books were borrowed for the whole week? _____

b. How many more books were borrowed on Monday than on Tuesday?

_____

c. How many books were borrowed on Wednesday and Thursday together?

_____

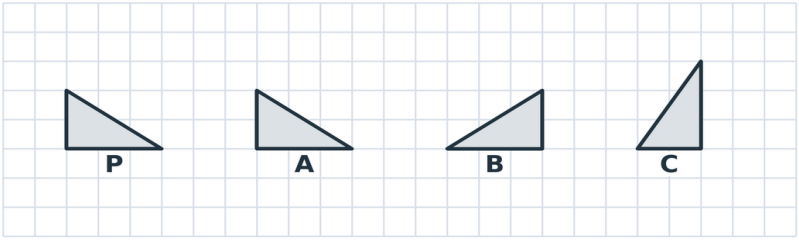
d. On which day were the most borrowed? _____

e. What is the MEDIAN? _____

10 Transformations and views

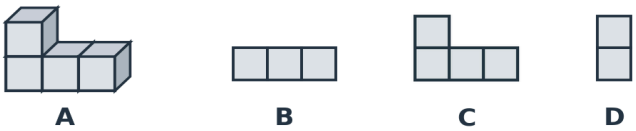
5 marks

10.1 Shape P is the original shape. Which transformation moves P to A, to B and to C — a translation, a reflection or a rotation? **(2)**



A: _____ B: _____ C: _____

10.2 Study object A below. Which view is B, which is C and which is D? **(3)**



B: _____ C: _____ D: _____

Total **55 marks**



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