SAMPEL PERCUMA

Cambridge Primary Maths Position, Direction and Coordinates Worksheets

Set penuh: Cambridge Primary

Maths Year 1–6

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PRIMARY MATHEMATICS · PRACTICE WORKBOOK

Cambridge Primary Mathematics

Stage 4

Topic practice for Year 4 (ages 8–9)

- 14 topics across Number, Geometry & Measure, Statistics & Probability
- 148 original practice questions, easy to challenging
- End-of-stage mixed test (35 marks)
- Full answer key with worked answers

Follows the Cambridge Primary Mathematics curriculum framework (0096), Stage 4.
Independent practice material — not an official Cambridge publication. All questions are original.
Metric units throughout; money in RM (ringgit) and sen.

Geometry and Measure 1Gp.01

Topic 12: Position and direction

Remember

- Position words: above, below, next to, between, left, right, top, middle, bottom.
- Direction words: forwards, backwards, turn left, turn right, half turn.

1. Look at the row.



(a) What is just to the left of the star?

(b) What is just to the right of the star?

(c) What is between the apple and the star?

Answer: _____

2. Look at the shelves.

	left	middle	right
top	cup	book	doll
middle	ball	car	hat
bottom	shoe	bag	clock

(a) What is above the car?

(b) What is below the car?

(c) What is on the bottom shelf on the right?

Answer: _____

3. Look at the shelves in question 2. What is next to the doll?

Answer: _____

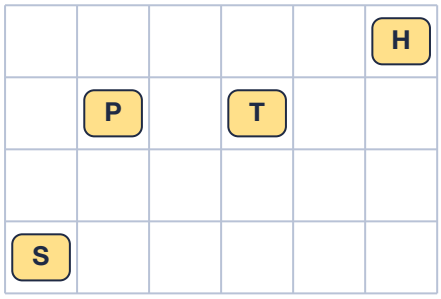
Geometry and Measure 2Gp.01–2Gp.02

Topic 13: Position, movement and reflection

Remember

- Describe moves with numbers and directions: 3 squares right, 2 squares up.
- A **reflection** is a mirror image: same shape and size, flipped over the mirror line.
- Each part of the shape is the same distance from the mirror line as its reflection.

1. Start at S. Move 3 squares right and 2 squares up. Which letter do you reach?



Answer: _____

2. Use the same grid. Describe how to move from S to H.

Answer: _____

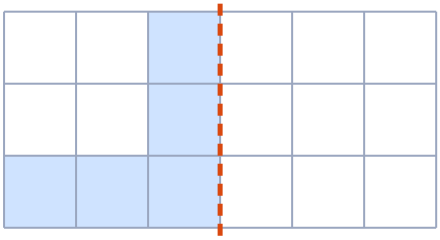
3. Use the same grid. Which letter is 2 squares to the left of T?

Answer: _____

4. Use the same grid. Which is nearer to S (counting squares): P or H?

Answer: _____

5. Shade the reflection of the shape in the dashed mirror line.



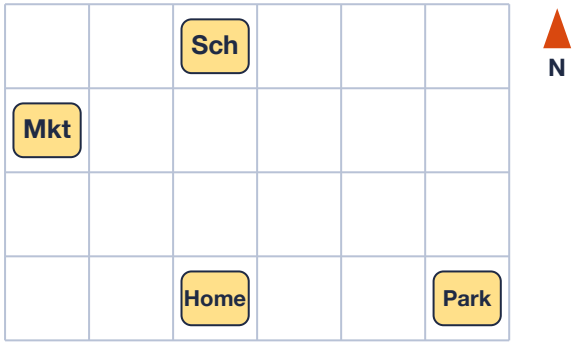
Geometry and Measure 3Gp.01–3Gp.02

Topic 13: Position, direction and reflection

Remember

- The four **cardinal points**: north (N), east (E), south (S), west (W). Clockwise: N → E → S → W.
- A quarter turn = a right angle. A half turn faces the opposite way.
- A reflection is the same size and shape, flipped over the mirror line.

1. Look at the map. North is up.



(a) Which place is directly north of Home?
(b) Which place is directly east of Home?
(c) Describe the route from Home to the Market (Mkt).

Answer: _____

2. You face north. You make a quarter turn clockwise. Which way do you face?

Answer: _____

3. You face west. You make a half turn. Which way do you face?

Answer: _____

4. You face east. You make a quarter turn anticlockwise. Which way do you face?

Answer: _____

5. What direction is opposite to south?

Answer: _____

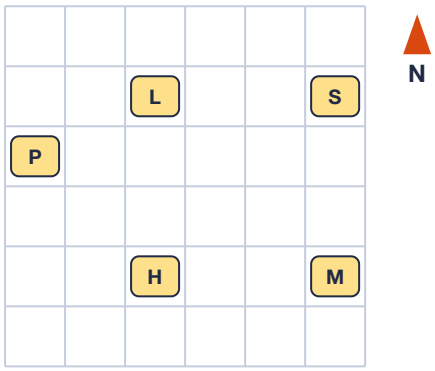
Geometry and Measure 4Gp.01–4Gp.03

Topic 12: Position, direction, coordinates and reflection

Remember

- Compass points clockwise: N, NE, E, SE, S, SW, W, NW.
- Coordinates (x, y): go **across** first, then **up**. (3, 1) means 3 across, 1 up.
- In a reflection each point ends up the same distance from the mirror line, on the other side.

1. Use the map. North is at the top. H = home, L = library, M = market, P = park, S = school.



(a) Which place is directly north of home?
(b) In which direction is the market from home?
(c) From the library, how many squares east is the school?
(d) Start at the market. Go 3 squares north. Where are you?

Answer: _____

2. Which direction is halfway between north and east? Which direction is opposite south-west?

Answer: _____

3. Sam faces west and turns 90° clockwise. Which way is he facing now? Then he turns 180°. Which way is he facing now?

Answer: _____

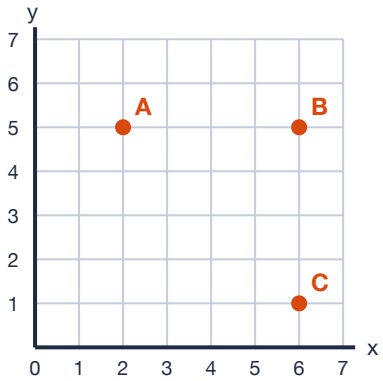
Geometry and Measure 5Gp.01–5Gp.04

Topic 13: Coordinates, translation and reflection

Remember

- (x, y): x tells you how far across, y tells you how far up.
- A **translation** slides a shape without turning it: every point moves the same way.
- Two mirror lines: reflect in one, then reflect everything in the other to make a pattern.

1. A, B and C are three corners of rectangle ABCD.



   Write the coordinates of A, B and C, and of the fourth corner D.

   Answer: _____

2. Which point is furthest to the right: (4, 9), (7, 2) or (5, 5)? Which is highest?

   Answer: _____

3. Three corners of a square are (1, 1), (4, 1) and (4, 4). What is the fourth corner?

   Answer: _____

4. Two corners of an isosceles triangle are (2, 1) and (6, 1). Give a possible third corner so the two slanting sides are equal.

   Answer: _____

5. The triangle with corners (1, 1), (3, 1) and (1, 3) is translated 4 squares right and 2 squares up. Write the new corners.

   Answer: _____

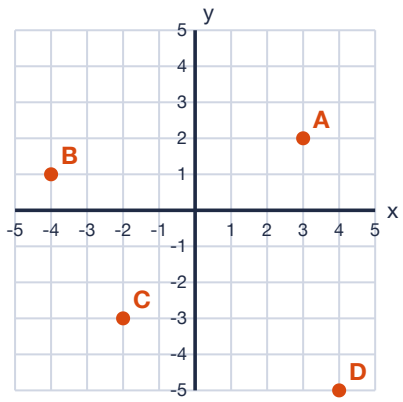
Geometry and Measure 6Gg.08, 6Gp.01–6Gp.05

Topic 14: Coordinates, transformations and symmetry

Remember

- Coordinates (x, y): across first, then up or down. Negative values are left of / below the origin.
- Translation: slide. Reflection: flip in a mirror line. Rotation: turn about a point (90° clockwise or anticlockwise).
- **Rotational symmetry** of order x: the shape looks the same x times in one full turn.

1. Write the coordinates of A, B, C and D.



Answer: _____

2. Three corners of a square are (–3, 2), (1, 2) and (1, –2). What are the coordinates of the fourth corner?

Answer: _____

3. A triangle has corners (1, 1), (3, 1) and (1, 4). It is translated 4 left and 2 down. Write the new corners.

Answer: _____

4. Reflect each point.
   (a) (3, 4) in the x-axis
   (b) (–2, 5) in the y-axis

Answer: _____

3	**4**	
4	**square and rectangle**	
5	**3**	12 → 3 → 6 → 9: three quarter turns.
6	**south**	Two right angles = a half turn.
7	**a right angle**	Half of a straight line (2 right angles) is 1 right angle.
8	**bigger**	The hour hand has moved further from 12.
9	**3 right angles (three-quarter turn)**	

Topic 11: Length, perimeter and area

1	**(a) 100 (b) 1000 (c) 3 (d) 240**	
2	**(a) cm (b) m (c) km**	
3	**m**	
4	**18 cm**	6 + 3 + 6 + 3 = 18.
5	**28 cm**	4 × 7 = 28.
6	**7 squares**	
7	**(a) 12 cm (b) 8 squares**	(a) 4 + 2 + 4 + 2. (b) 2 rows of 4.
8	**18 cm**	5 + 2 + 3 + 2 + 2 + 4 = 18.
9	**135 cm (1 m 35 cm)**	200 − 65 = 135.
10	**1 km**	1 km = 1000 m.

Topic 12: Mass, capacity and temperature

1	**(a) 1000 (b) 2300 (c) 1 kg 500 g**	
2	**(a) 1000 (b) 3000 (c) 1**	
3	**650 g**	Each number is 100 g; the small mark halfway is 50 g. The pointer is halfway between 600 and 700.
4	**A 700 ml, B 250 ml**	B: each small mark is 50 ml; the water is halfway between 200 and 300.
5	**A 25 °C, B 15 °C**	Each small mark is 5 °C.
6	**(a) g (b) kg (c) l (d) ml**	
7	**(a) thermometer (b) weighing scale (c) measuring jug**	
8	**1250 g (1 kg 250 g)**	2000 − 750 = 1250.
9	**4**	2 l = 2000 ml; 2000 ÷ 500 = 4.
10	**1500 g**	1 kg 50 g = 1050 g.

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