SAMPEL PERCUMA

Cambridge Primary Maths 2D and 3D Shapes and Symmetry Worksheets

Set penuh: Cambridge Primary

Maths Year 1–6

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PRIMARY MATHEMATICS · PRACTICE WORKBOOK

Cambridge Primary Mathematics

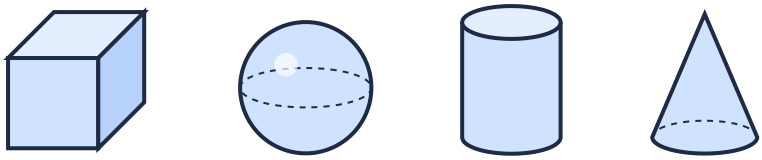
Stage 6

Topic practice for Year 6 (ages 10–11)

- 17 topics across Number, Geometry & Measure, Statistics & Probability
- 162 original practice questions, easy to challenging
- Decimals, fractions, percentages, ratio, angles, coordinates, averages
- End-of-stage mixed test (36 marks)
- Full answer key with worked answers

Follows the Cambridge Primary Mathematics curriculum framework (0096), Stage 6.
Independent practice material — not an official Cambridge publication. All questions are original.
Metric units throughout; money in RM (ringgit) and sen.

5. Look at the 3D shapes.



A **B** **C** **D**

(a) Which shape has no flat faces?

(b) Which shape has 2 flat faces and 1 curved face?

Answer: _____

6. How many faces does a cube have?

Answer: _____

7. Is it 2D or 3D?

(a) a box of tissues

(b) a drawing of a square

(c) a football

Answer: _____

8. A shape is turned a little at a time. Does it look the same after a quarter turn?

(a) a square

(b) a rectangle (not a square)

Answer: _____

9. Which 3D shape is like a tin of sardines?

cube cylinder cone

Answer: _____

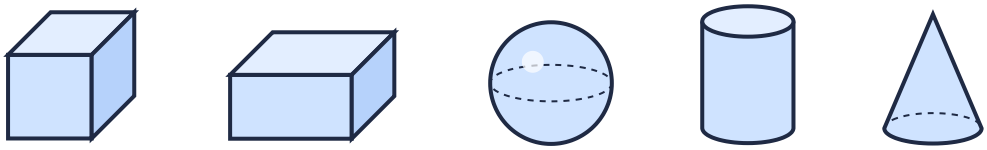
Geometry and Measure 2Gg.05, 2Gg.08

Topic 11: 3D shapes

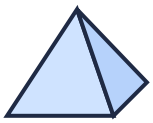
Remember

- 3D shapes have **faces** (flat or curved), **edges** (where faces meet) and **vertices** (corners).
- Cube: 6 square faces, 12 edges, 8 vertices.
- Look for 3D shapes around you: a football is a sphere, a tin is a cylinder.

1. Look at the shapes.



A B C D E



F

Which shapes have only flat faces?

Answer: _____

2. Complete the table.

shape	faces	edges	vertices
cube			
square-based pyramid			

3. What shape are the faces of a cube?

Answer: _____

4. What 2D shape are the flat faces of a cylinder?

Answer: _____

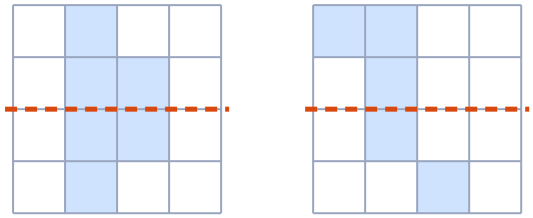
5. Name a 3D shape with 1 curved face and 1 flat face.

Answer: _____

7. How many edges and vertices does a cuboid have?

   Answer: _____

8. Is the dashed line a line of symmetry?



A **B**

   Answer: _____

9. Look at these capital letters: A B E H T
   (a) Which have a vertical line of symmetry?
   (b) Which have a horizontal line of symmetry?

   Answer: _____

10. How many lines of symmetry does a rectangle (not a square) have? Describe them.

    Answer: _____

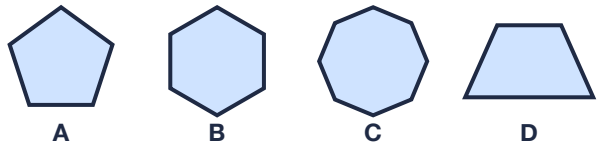
Geometry and Measure 4Gg.01, 4Gg.05–4Gg.07

Topic 8: 2D shapes, 3D shapes and symmetry

Remember

- Pentagon 5 sides · hexagon 6 · octagon 8. Shapes **tessellate** if they fit together with no gaps or overlaps.
- 3D shapes have **faces** (flat or curved). A **net** is the flat shape that folds up to make a 3D shape.
- A **line of symmetry** splits a shape into two matching mirror halves. It can be vertical, horizontal or diagonal.

1. Name each shape.



Answer: _____

2. Two identical squares are joined side to side. What new shape is made? How many sides does it have?

Answer: _____

3. Which of these shapes tessellate on their own: square, regular hexagon, circle, equilateral triangle?

Answer: _____

4. How many faces does a cube have? What shape is each face?

Answer: _____

5. Describe the faces of a square-based pyramid.

Answer: _____

6. Describe the faces of a triangular prism.

Answer: _____

7. Describe the faces of a cylinder.

Answer: _____

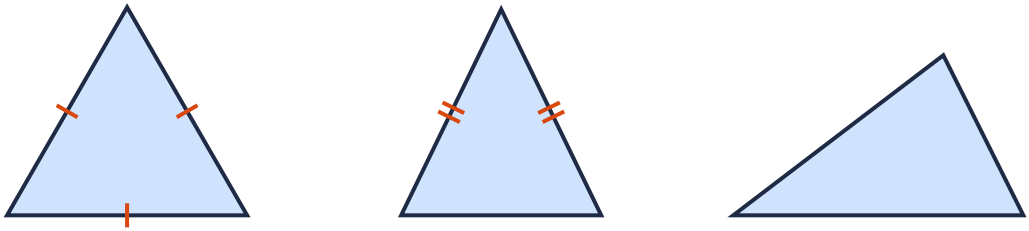
Geometry and Measure 5Gg.01, 5Gg.04–5Gg.06

Topic 10: Triangles, 3D shapes, nets and symmetry

Remember

- **Equilateral**: 3 equal sides, 3 equal angles. **Isosceles**: 2 equal sides, 2 equal angles. **Scalene**: no equal sides.
- Marks on sides show which sides are equal.
- A cube has 11 different nets. A net must fold with no overlap and no gap.

1. Name each type of triangle.



A **B** **C**

Answer: _____

2. How many lines of symmetry does each triangle have?
   (a) equilateral
   (b) isosceles
   (c) scalene

   Answer: _____

3. A triangle has sides of 5 cm, 5 cm and 8 cm. What type of triangle is it? How many of its angles are equal?

   Answer: _____

4. Name each 3D shape.
   (a) 6 rectangular faces
   (b) 1 square face and 4 triangular faces
   (c) 2 flat circular faces and 1 curved face
   (d) 4 triangular faces

   Answer: _____

5. Complete the table.

shape	faces	edges	vertices
cube	6		
triangular prism			

Geometry and Measure 6Gg.01–6Gg.02, 6Gg.11

Topic 11: Quadrilaterals and circles

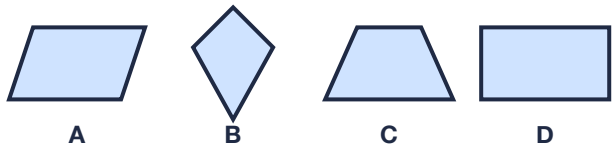
Remember

- Quadrilaterals: square, rectangle, rhombus, parallelogram, trapezium, kite. Look at sides, angles, parallel sides, diagonals and symmetry.
- Circle: **centre**, **radius** (centre to edge), **diameter** (edge to edge through the centre) = 2 × radius, **circumference** (the distance round).
- To draw a circle with a compass, open it to the radius.

1. Name the quadrilateral.
   (a) exactly one pair of parallel sides
   (b) 4 equal sides, no right angles
   (c) diagonals equal in length and cross at right angles

   Answer: _____

2. Name each shape.



   Answer: _____

3. How many lines of symmetry does each shape have?
   (a) rectangle
   (b) rhombus
   (c) kite
   (d) parallelogram (not a rectangle or rhombus)

   Answer: _____

4. True or false?
   (a) Every square is a rectangle.
   (b) Every rectangle is a square.
   (c) A kite has 2 pairs of parallel sides.

   Answer: _____

2	**estimate 7 + 3 = 10; answer 10.07**	
3	**(a) 14.4 (b) 14.7 (c) 0.72**	
4	**(a) 15 (b) 64.5**	(a) 1.25 × 12 = 12 + 3. (b) 4.3 × 10 + 4.3 × 5 = 43 + 21.5.
5	**(a) 2.1 (b) 1.95 (c) 2.4**	
6	**1.1 m**	4 × 1.35 = 5.4; 6.5 – 5.4 = 1.1.
7	**RM3.45**	10.35 ÷ 3 = 3.45.
8	**RM49.20**	2.05 × 24 = 41 + 8.20 = 49.20.
9	**8 km**	2.75 + 3.4 = 6.15; 6.15 + 1.85 = 8.00.

Topic 9: Ratio and proportion

1	**RM10.50**	1 pen = 4.50 ÷ 3 = 1.50; 7 × 1.50 = 10.50.
2	**500 g flour, 5 eggs, 375 ml coconut milk**	× 2.5 (10 ÷ 4).
3	**8**	5 parts = 20, so 1 part = 4; red = 2 × 4 = 8.
4	**10**	2 : 3 × 5 = 10 : 15.
5	**(a) 2 : 3 (b) 5 : 2**	Divide by 6 and by 5.
6	**28**	21 ÷ 3 = 7; 7 × 4 = 28.
7	**300 km; 8 hours**	60 km each hour: 5 × 60 = 300; 480 ÷ 60 = 8.
8	**No**	In direct proportion, 3 kg would cost 3 × RM6 = RM18.
9	**37.5 km**	7.5 × 5 = 37.5.
10	**8 litres white; 10 litres altogether**	2 × 4 = 8; 2 + 8 = 10.

Topic 10: Time in decimals and mixed units

1	**(a) 2 h 30 min (b) 1 h 15 min (c) 3 h 45 min (d) 6 min**	
2	**(a) 1.75 h (b) 4.2 h (c) 1.5 h**	(b) 12 ÷ 60 = 0.2.
3	**(a) 2 days 12 hours (b) 1 year 6 months**	(a) 0.5 × 24 = 12. (b) 0.5 × 12 = 6.
4	**3 h 24 min**	0.4 × 60 = 24.
5	**37 h 30 min**	7.5 × 5 = 37.5 hours.
6	**2.25 hours**	135 ÷ 60 = 2.25.
7	**2 hours 20 minutes**	2.3 h = 2 h 18 min.
8	**00:30 (the next day)**	2.75 h = 2 h 45 min. 21:45 + 2 h = 23:45; + 45 min = 00:30.
9	**24 seconds**	0.4 × 60 = 24.

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