Stage 6 Cambridge Primary Mathematics Practice Worksheet 4

Wednesday 12 August 2026

Syllabus Focus: Objective 6Gg.01 — Quadrilaterals

Topic: Properties, Classifications, Diagonals, Symmetry, and Orientations of Quadrilaterals

Time Allowed: 30 Minutes | **Total Marks:** 20 Marks

Section A: Properties and Definitions of Quadrilaterals

Question 1 [1 Mark]

Match each quadrilateral to the description of its sides.

- **Parallelogram** → **Exactly one pair of parallel sides**
- **Trapezium** → **Two pairs of equal-length adjacent sides**
- **Kite** → **Opposite sides are equal and parallel**

Question 2 *(TWM.01 Specialising)* [2 Marks]

Complete the missing words in the statements below using the mathematical properties of quadrilaterals.

(a) A **rhombus** is a parallelogram with _____ equal sides. [1]

(b) A **trapezium** is a quadrilateral with exactly _____ pair of opposite parallel sides. [1]

Question 3 *(TWM.02 Generalising)* [2 Marks]

Certain quadrilaterals have diagonals that intersect (cross) at **right angles** (90°).

Circle **all** the quadrilaterals from the list below that **always** have diagonals intersecting at right angles:

Rectangle **Square** **Parallelogram** **Rhombus** **Kite**

Section B: Lines of Symmetry and Angle Properties

Question 4 [2 Marks]

Write down the number of lines of symmetry for each of the following quadrilaterals:

(a) A non-square **rectangle**: _____ line(s) of symmetry [1]

(b) A non-rhombus **parallelogram**: _____ line(s) of symmetry [1]

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Question 5 [2 Marks]

A quadrilateral has the following properties:

- Opposite sides are parallel and equal in length.
- Opposite angles are equal, but **none** of the interior angles are right angles.
- It has no lines of symmetry.

Write down the name of this quadrilateral.

Answer: _____

Section C: Classification and Shape Hierarchies

Question 6 *(TWM.02 Generalising)* [2 Marks]

Classify each statement as **True** or **False**.

(a) "Every square is also a special type of rectangle."

Answer: _____ [1]

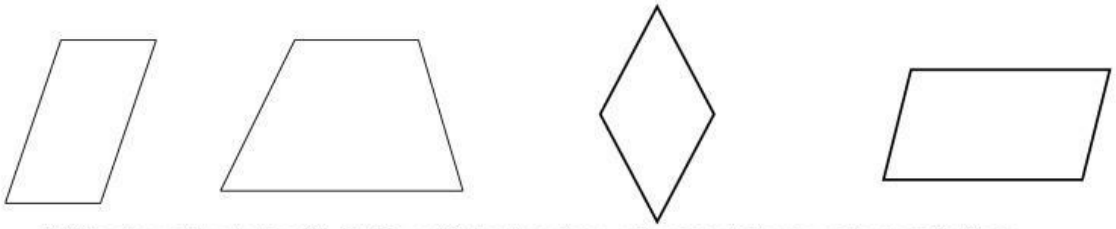
(b) "Every parallelogram is also a special type of rhombus."

Answer: _____ [1]

Question 7 *(TWM.01 Specialising)* [2 Marks]

Look at the four quadrilaterals sketched below.

Shape A: **Shape B:** **Shape C:** **Shape D:**



Write down the letter (**A**, **B**, **C**, or **D**) for the shape that matches each description:

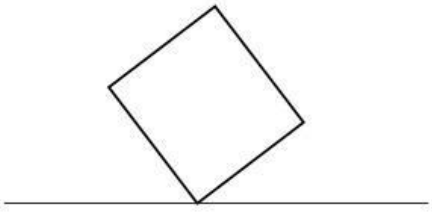
(a) A **trapezium**: Shape _____ [1]

(b) A **rhombus**: Shape _____ [1]

Section D: Orientation and Reasoning

Question 8 [2 Marks]

Safia looks at the shape drawn below, resting on one of its vertices.



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(All 4 sides are equal in length; all 4 interior angles are 90°)

Safia says: "*Because this shape is resting on a vertex, it is a diamond, not a square.*"

Explain why Safia is incorrect. Use geometric properties in your explanation.

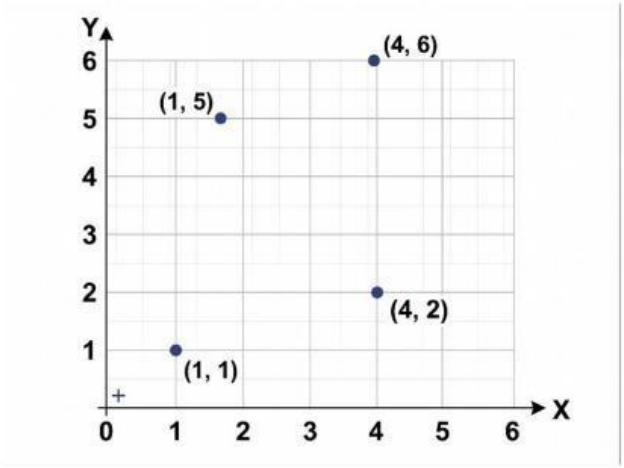
Question 9 [2 Marks]

Compare a **square** and a **kite**.

(a) State **one** geometric property that a square and a kite have in common. [1]

(b) State **one** geometric property that is different between a square and a non-square kite. [1]

Question 10 [3 Marks]



(a) Sketch or state the type of quadrilateral formed by connecting these vertices in order. [1]

Answer: _____

(b) Calculate the length of the two vertical sides. [1]

Answer: _____ units

(c) State how many pairs of parallel sides this quadrilateral has. [1]

Answer: _____ pair(s)

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