The Panda Math Tutor

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Quadrilaterals

Student Worksheet

Questions & Working Space

IGCSE Mathematics

Name: _____

Date: _____

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Note

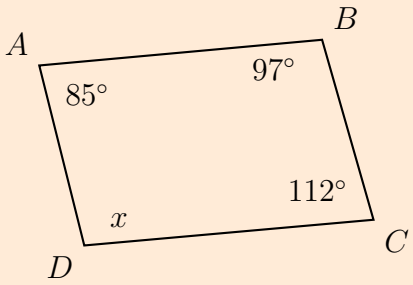
How to use this worksheet. These questions are built *strictly* on the *Quadrilaterals* notes: the definition of a quadrilateral, the 360° angle sum, and the properties of the square, rectangle, parallelogram, rhombus, trapezium and kite — sides, angles, diagonals and symmetry.
Working space. Ruled lines are provided after each question — show *all* of your working there. Whenever you use a property, *name* it (for example "opposite angles of a parallelogram are equal" or "co-interior angles add to 180°"); in this topic the reason earns as many marks as the number. Harder questions have a teal **Hint** box; try the question first and use the hint only if you are stuck.
Diagrams. Some diagrams are not drawn to scale, so never measure an angle with a protractor — work it out. Where no diagram is given, sketch one yourself before you start.
Checking your answers. Full step-by-step solutions, a marking scheme for the exam paper, and a quick answer key are in the separate booklet *"Quadrilaterals — Solutions & Answer Key."* Try each question honestly before you look.

1 Part I — Topic-by-Topic Exercises

1.1 The Angle Sum of a Quadrilateral

Exercise A1 *[Basic]*

Three of the interior angles of a quadrilateral are 85°, 97° and 112°. Find the fourth angle.



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Exercise A2 *[Basic]*

A quadrilateral has interior angles of $124°$, $68°$ and $90°$. Find the size of the remaining angle.

Exercise A3 *[Standard]*

The four interior angles of a quadrilateral are x, $2x$, $3x$ and $4x$. Find the value of x and write down all four angles.

Exercise A4 *[Standard]*

The interior angles of a quadrilateral are $(x+20)°$, $(x-10)°$, $2x°$ and $(x+30)°$.

(a) Form an equation in x and solve it.

(b) Find the size of each angle, and check that your four answers are correct.

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Preview ends here

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