## AQA

## Properties of Polygons 20 minute test 2

1 Look at the diagram below.
Jamal says that $A B C D$ is a parallelogram
Kaidee says that $A B C D$ is not a parallelogram.


Who is correct? Explain your reasoning.
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$\qquad$
$\qquad$
$\qquad$

2 (a) Work out the value of $x$.

Not drawn accurately


Answer
degrees
(b) Give full reasons for your answer.
$\qquad$
$\qquad$
$\qquad$

3 Work out the value of $y$.


Answer degrees
(b) Give a reason for your answer.

4 Look at the diagram below.


Not drawn accurately

4 (a) (i) Work out the value of $x$.

Answer
degrees
4 (a) (ii) Work out the value of $y$.

Answer
degrees

4 (b) Tick the correct statement.
$x$ and $75^{\circ}$ are alternate angles
$x$ and $75^{\circ}$ are corresponding angles
$x$ and $75^{\circ}$ are opposite angles


5 Look at the quadrilateral below. Work out the value of angle $x$.


Not drawn accurately

Answer
degrees

6 A regular polygon is shown below.


6 (a) Write down the mathematical name for this shape.

Answer

6 (b) Work out the size of one exterior angle.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

7 A regular polygon has 12 sides. Work out the size of one interior angle.

8


The diagram shows a kite.

Find the size of the biggest angle.

