

Classifying triangles and quadrilaterals by properties

WHAT THIS LESSON TEACHES

A feature we can use to sort a shape such as how many sides it has the size of its angles or whether any sides are parallel.

→ A rectangle has the property two pairs of parallel sides

→ An equilateral triangle also has three equal angles of 60 degrees each

MODEL THIS ON THE BOARD

CLASSIFY A SQUARE USING PROPERTIES

- 1 Look at the square and note it has four equal sides and four right angles.
- 2 Check for parallel sides: it has two pairs of parallel sides.
- 3 Tick the boxes for sides angles and parallel lines in the property table.

ANSWER KEY

a) equal sides, right angles, parallel sides

b) equal sides

c) parallel sides

Q1: Yes

Q2: Yes

Q3: Yes

Q4: No

a) Always — Every square meets all rectangle properties.

b) Sometimes — Rectangles can have equal sides or not.

c) Never — It is right-angled not acute.

d) Always — That is the definition used for sorting.

EXTENSION SHEET · STRETCH ANSWERS

S1: a regular hexagon

S2: a regular hexagon

S3: an isosceles trapezium

S4: a rectangle

S5: an isosceles triangle