

Y6 Classify Shapes

KS2 Y6 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

Is a square a rectangle?

Step 1 · A rectangle has 4 right angles and opposite sides equal
a square has both

Step 2 · A square also has all 4 sides equal
an extra property

Answer: Yes; a square is a special rectangle

Check: But a rectangle is not always a square ✓

2. Now try one with the steps

A triangle has angles of 90° , 45° and 45° . Classify it.

Step 1 · It has a 90° angle

Step 2 · Two equal angles means two equal sides

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. What do we call a triangle with all three sides equal?

2. What do we call a triangle with exactly two equal sides?

3. What do we call a triangle with no equal sides?

4. A triangle has angles of 30° , 60° and 90° . Classify it.

5. Name the quadrilateral with 4 equal sides and 4 right angles.

6. A quadrilateral has opposite sides parallel and equal, no right angles, and its sides are not all equal. What is it?

7. Name the quadrilateral with exactly one pair of parallel sides.

8. Name the quadrilateral with two pairs of equal sides next to each other and no parallel sides.

9. True or false: every square is a rhombus.

10. True or false: every rectangle is a square.

11. True or false: a rhombus is a type of parallelogram.

12. Which three quadrilaterals have diagonals that always cross at right angles?

13. Which is the odd one out: square, rectangle, rhombus, kite? Explain.

14. A triangle has angles of 70° , 70° and 40° . What type of triangle is it?

15. Can a triangle have two right angles? Explain.

4. Before you hand it in

Saying a square is not a rectangle because it 'looks different'.

Check the definition: a rectangle has 4 right angles and opposite sides equal. A square has these, so it is a special rectangle.

Thinking a rhombus turned on its point is a different shape (a 'diamond').

Turning a shape does not change its properties. A rhombus has 4 equal sides however it is turned.

Calling any triangle with a long side 'scalene'.

Measure or read the sides. Isosceles: 2 equal. Equilateral: 3 equal. Scalene: none equal.