Classifying Triangles and Quadrilaterals

Grade 5 · 6 questions · step-by-step answers at the end

Name: Date: Score: / 6

USEFUL EQUATIONS

equilateral, isosceles, scalene angles of a triangle = 180°

angles of a quadrilateral = 360° square ⊂ rectangle ⊂ parallelogram

Questions

Show your working in the space under each question.

1. EASY What is a triangle with three equal sides called?

2. EASY How many pairs of parallel sides does a parallelogram have?

3. MEDIUM A triangle has angles 60°, 70° and 50°. Is it acute, right or obtuse?

4. MEDIUM Name a quadrilateral with four equal sides that need not have right angles.

5. HARD Three angles of a quadrilateral are 80°, 95° and 110°. Find the fourth.

6. HARD True or false: every rhombus is a parallelogram, and every parallelogram is a rhombus.

Step-by-step answers

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1. **Equilateral**.
2. **2**.
3. All angles are less than 90°: **acute**.
4. A **rhombus**.
5. $360 - 285 = \mathbf{75°}$.
6. First part **true** (a rhombus has two pairs of parallel sides). Second part **false** (a parallelogram need not have equal sides).