 Name _____ Date _____ Per _____

GRADE 8 MATH · CLASSWORK

Identify Similar Figures

SCORE / 25

01 Part A · Practice

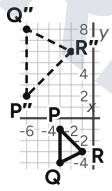
Figures are similar when matching angles are equal and all matching sides have the same ratio (scale factor).

EXAMPLE

Is a 4 × 6 **rectangle similar to a** 10 × 15 **rectangle?**

1. Short sides: 10 ÷ 4 = 2.5.
2. Long sides: 15 ÷ 6 = 2.5.
3. Same ratio, all angles 90°: similar.

1 ●○○ Is $\triangle P''Q''R''$ similar to $\triangle PQR$? If yes, give the scale factor; if no, explain.



2 ●○○ Right triangle 1 has legs 2 and 4. Right triangle 2 has legs 4 and 8. Are they similar?

3 ●○○ Which rectangle is similar to a 3 × 6 rectangle? **A** 5 × 8 **B** 9 × 18 **C** 9 × 19

4 ●○○ Is a 3 × 6 rectangle similar to a 1 × 2 rectangle? Explain.

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Preview - the full worksheet and its answer key are at primeworksheet.com