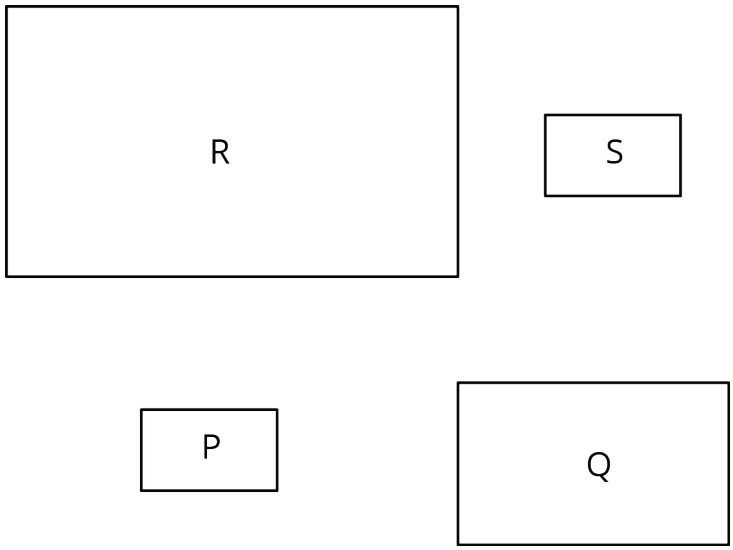
NAME DATE PERIOD

Unit 1, Lesson 5: The Size of the Scale Factor

1. Rectangles P, Q, R, and S are scaled copies of one another. For each pair, decide if the scale factor from one to the other is greater than 1, equal to 1, or less than 1.



a. from P to Q

b. from P to R

c. from Q to S

d. from Q to R

e. from S to P

f. from R to P

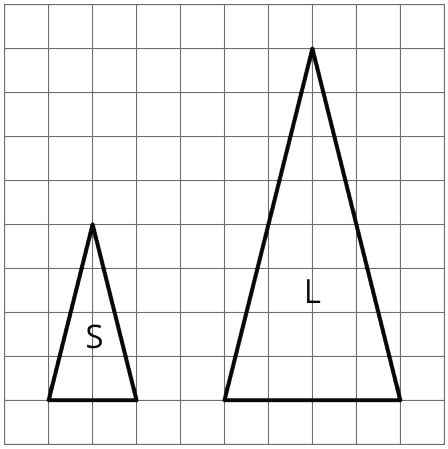
g. from P to S

2. Triangle S and Triangle L are scaled copies of one another.

a. What is the scale factor from S to L?

b. What is the scale factor from L to S?

c. Triangle M is also a scaled copy of S. The scale factor from S to M is $\frac{3}{2}$. What is the scale factor from M to S?



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3. Are two squares with the same side lengths scaled copies of one another? Explain your reasoning.

4. Quadrilateral A has side lengths 2, 3, 5, and 6. Quadrilateral B has side lengths 4, 5, 8, and 10. Could one of the quadrilaterals be a scaled copy of the other? Explain.

(from Unit 1, Lesson 2)

5. Select **all** the ratios that are equivalent to the ratio $12 : 3$. Explain how you know.

A. $6 : 1$
B. $1 : 4$
C. $4 : 1$
D. $24 : 6$
E. $15 : 6$
F. $1,200 : 300$
G. $112 : 13$

(from Grade 7, Unit 2, Lesson 5)