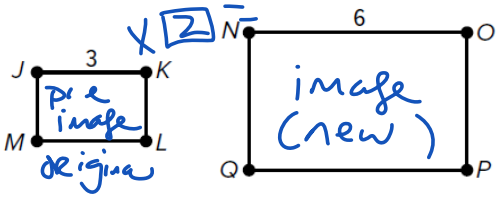
Module 8 Similarity

Sunday, April 2, 2023 5:41 PM

1. Use the figure to complete the statement.



The transformation from rectangle *JKLM* to rectangle *NOPQ* is a(n)

[A. enlargement B. reduction]

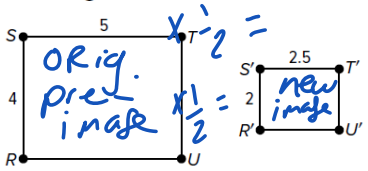
with a scale factor of

[A. 0.5 B. 2 C. 3].

2.) . If the point $P(4,6)$ is dilated with a center of dilation at the origin and $k = \frac{3}{2}$ then where is P'?

3.) . If after a dilation T' is at $(-4, 28)$ and T was at $(-1, 7)$ then what was the value of k?

4. A dilation maps rectangle *RSTU* onto rectangle *R'S'T'U'*.



What is the similarity ratio of the dilation?

A. $\frac{1}{2}$ C. $\frac{5}{4}$

B. 2 D. $\frac{4}{5}$

Refer to the figure at the right.
Write your answer in simplified fraction form.

5. Find the scale factor of ΔJKL to ΔPQR.

6. Find the ratio of the areas of ΔJKL to ΔPQR.