

Unit 2 Lesson 4: Dilations on a Square Grid

1 Estimating a Scale Factor (Warm up)

Student Task Statement

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A

•
B

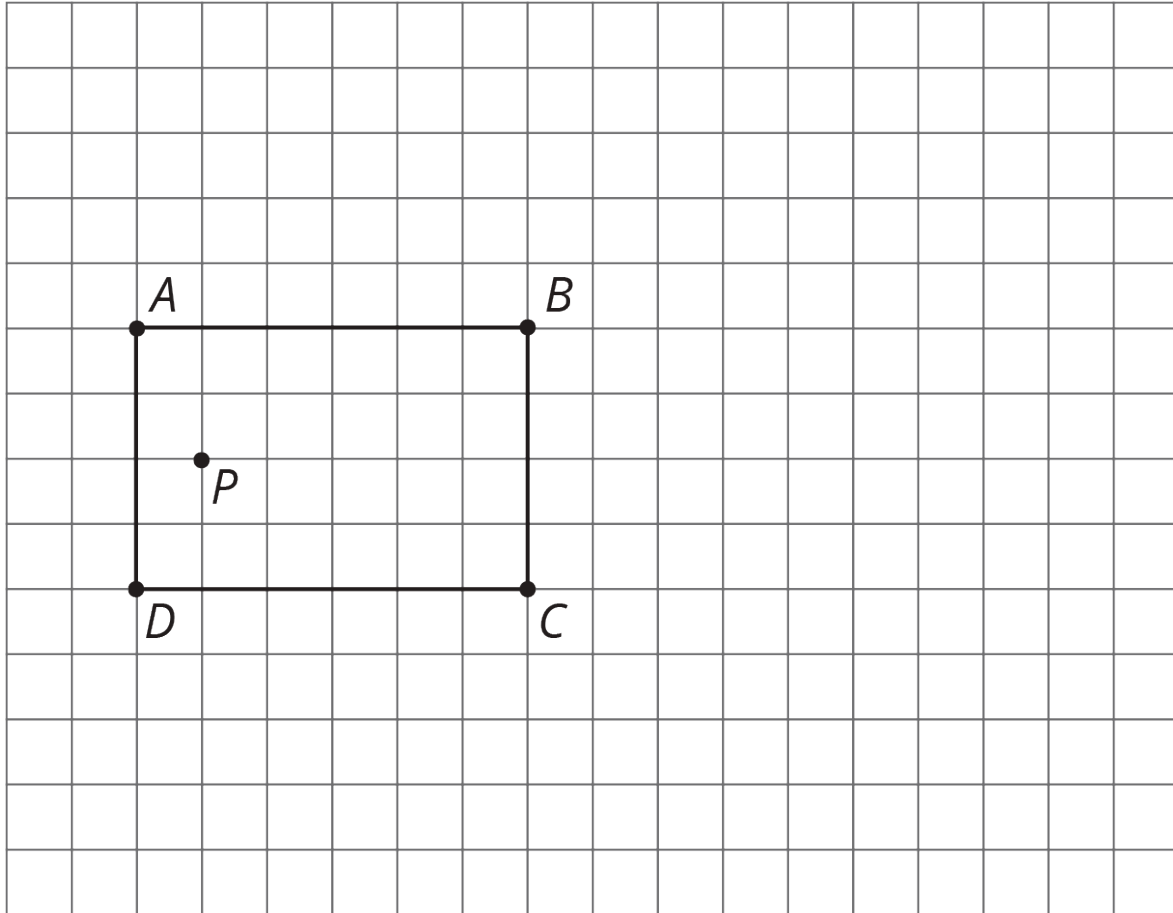
•
C

Point *C* is the dilation of point *B* with center of dilation *A* and scale factor s . Estimate s . Be prepared to explain your reasoning.

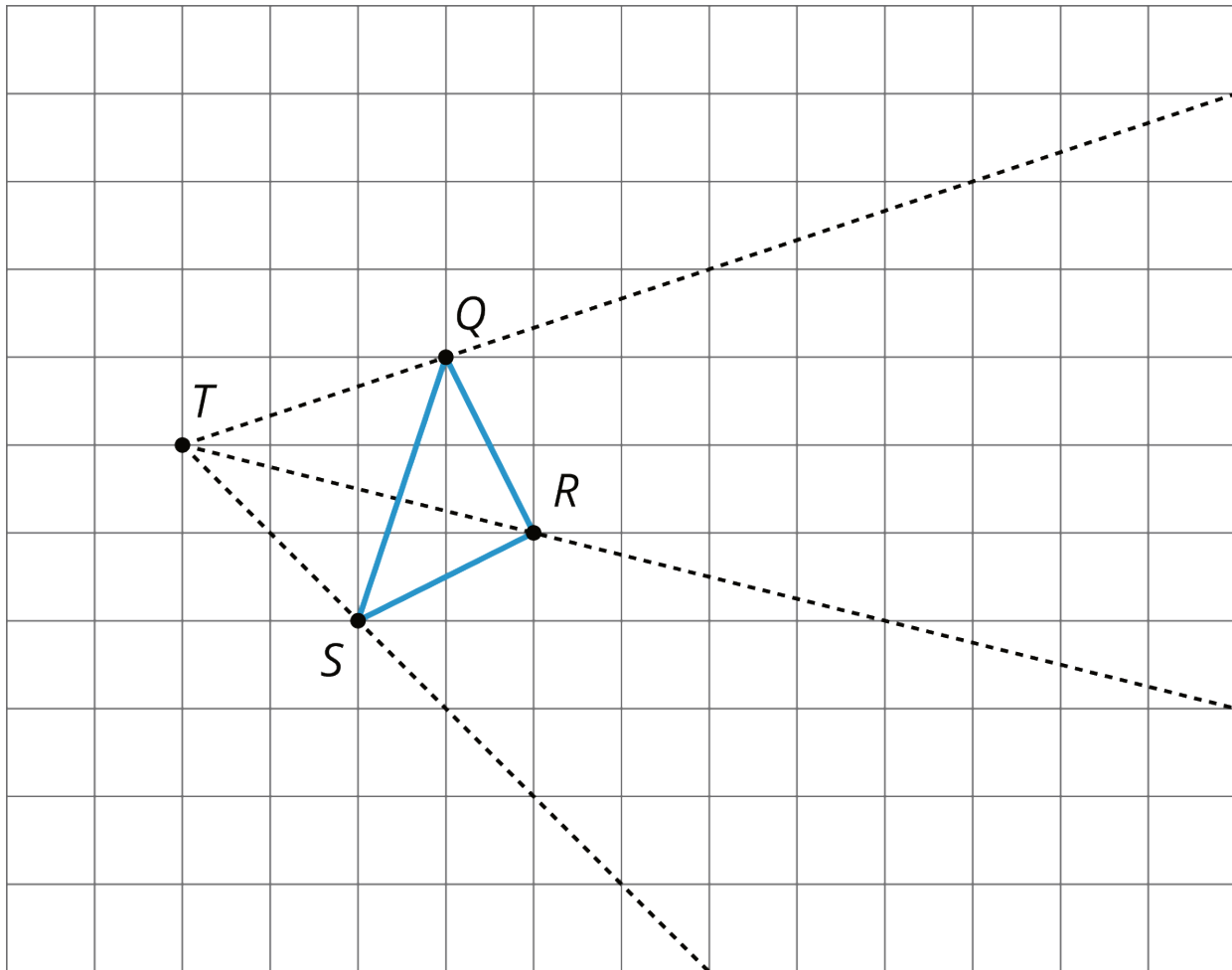
2 Dilations on a Grid

Student Task Statement

1. Find the dilation of quadrilateral $ABCD$ with center P and scale factor 2.



2. Find the dilation of triangle QRS with center T and scale factor 2.
3. Find the dilation of triangle QRS with center T and scale factor $\frac{1}{2}$.



3 Card Sort: Matching Dilations on a Coordinate Grid

Student Task Statement

Your teacher will give you some cards. Each of Cards 1 through 6 shows a figure in the coordinate plane and describes a dilation.

Each of Cards A through E describes the image of the dilation for one of the numbered cards.

Match number cards with letter cards. One of the number cards will not have a match. For this card, you'll need to draw an image.

Images for Activity Synthesis

