## Unit 2 Lesson 4: Dilations on a Square Grid

### 1 Estimating a Scale Factor (Warm up)

#### Student Task Statement

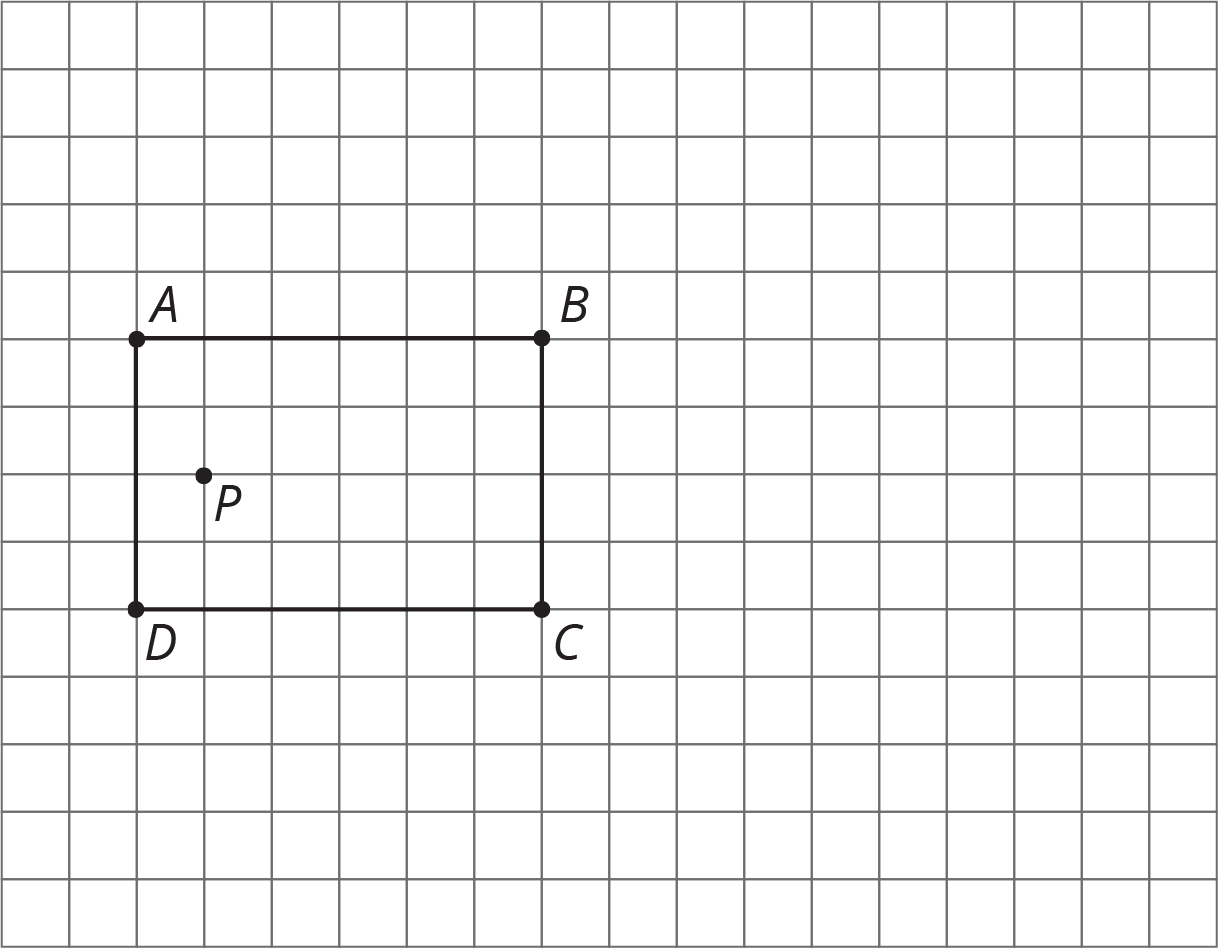


Point is the dilation of point with center of dilation and scale factor . Estimate . Be prepared to explain your reasoning.

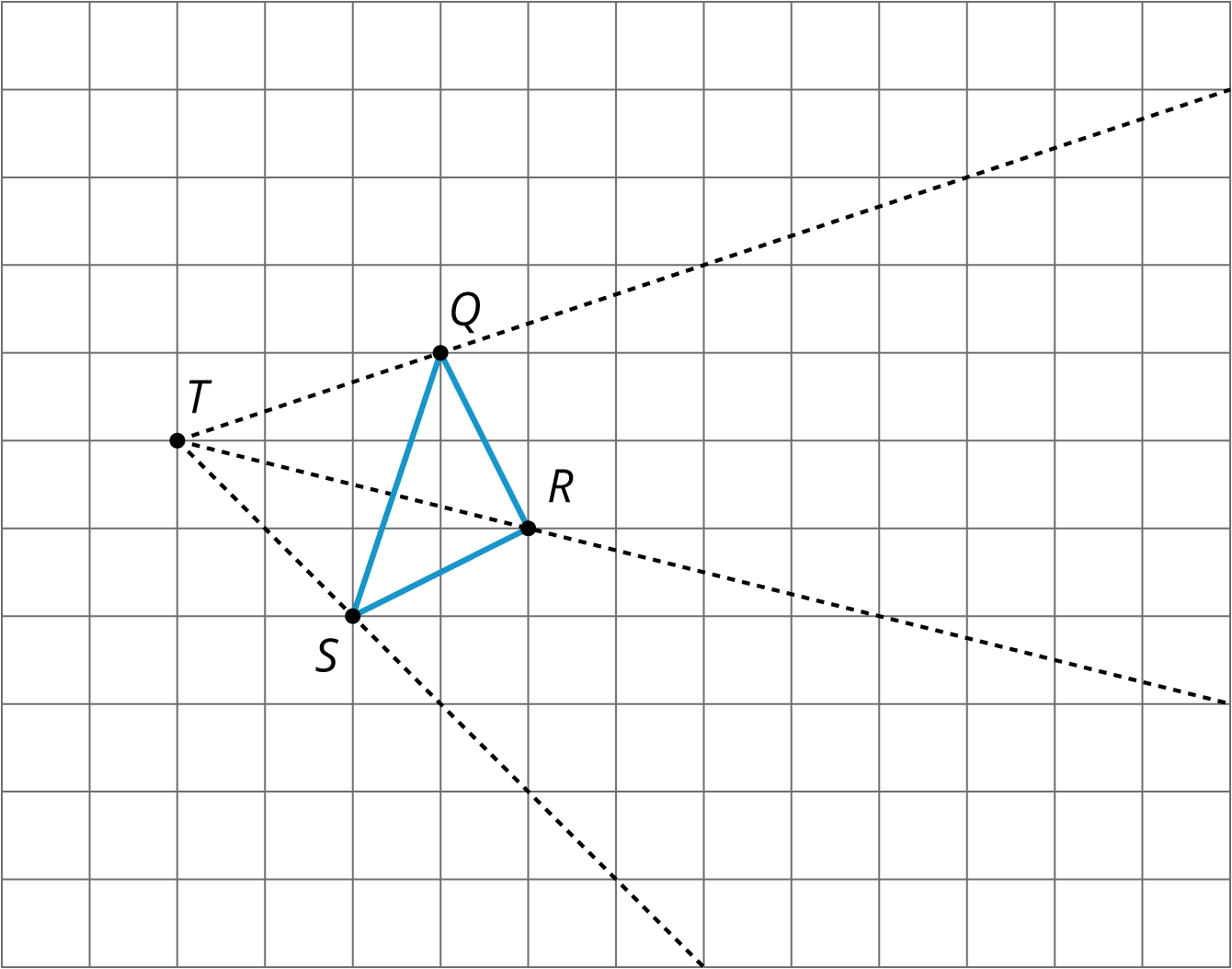
### 2 Dilations on a Grid

#### Student Task Statement

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

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1. Find the dilation of triangle with center and scale factor 2.
2. Find the dilation of triangle with center and scale factor .



### 3 Card Sort: Matching Dilations on a Coordinate Grid

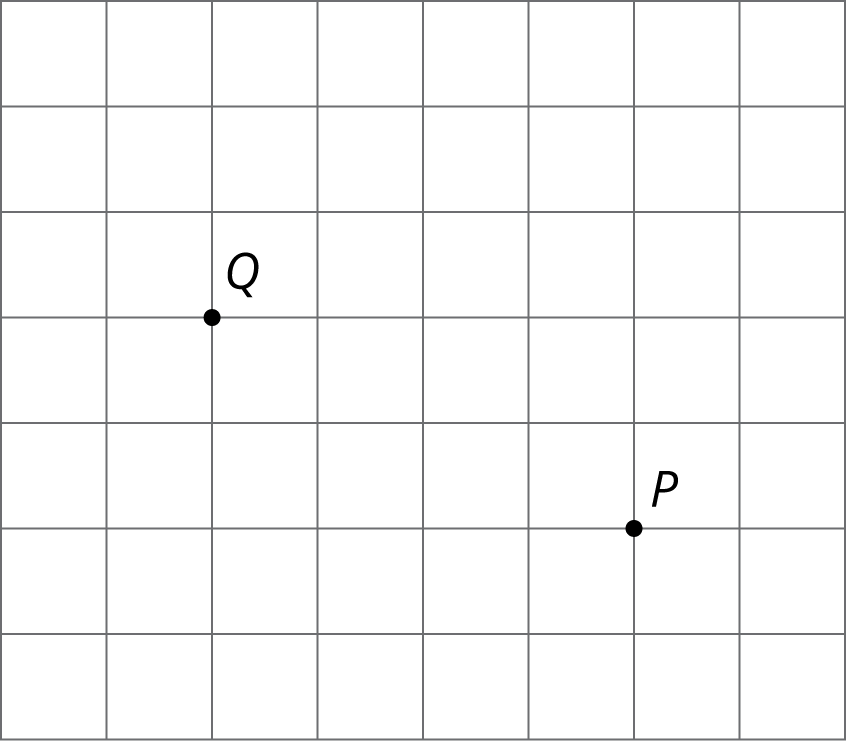
#### Student Task Statement

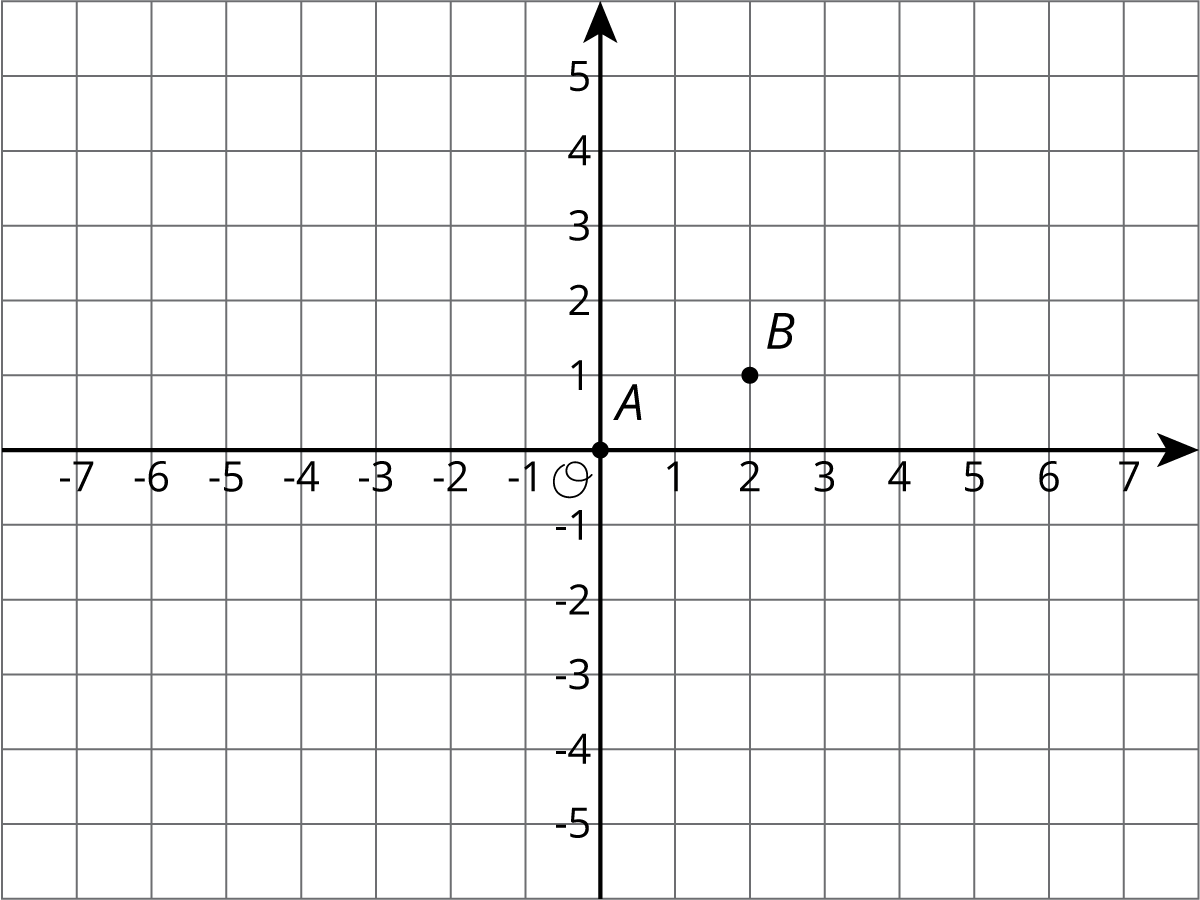
Your teacher will give you some cards. Each of Cards 1 through 6 shows a figure in the coordinate plane and describes a dilation.

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







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