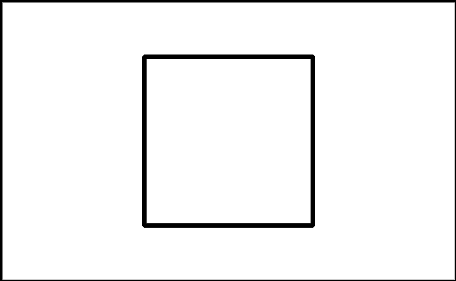
## Unit 1 Lesson 7: Construction Techniques 5: Squares

### 1 Which One Doesn’t Belong: Polygons (Warm up)

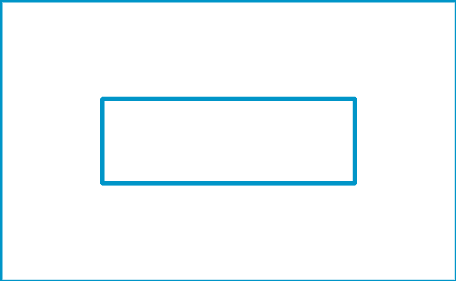
#### Student Task Statement

Which one doesn’t belong?

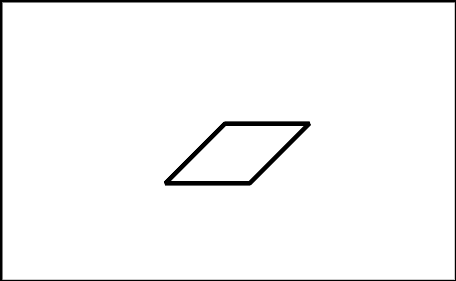
A



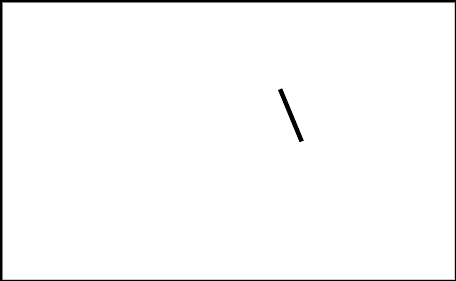
B



C



D



### 2 It’s Cool to Be Square

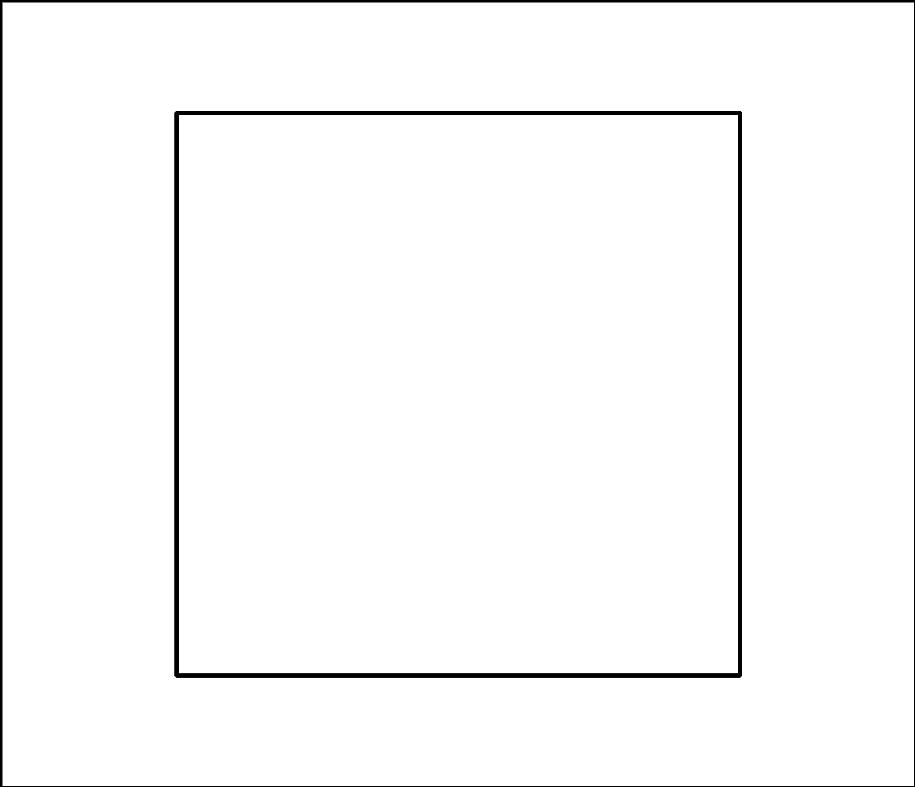
#### Student Task Statement

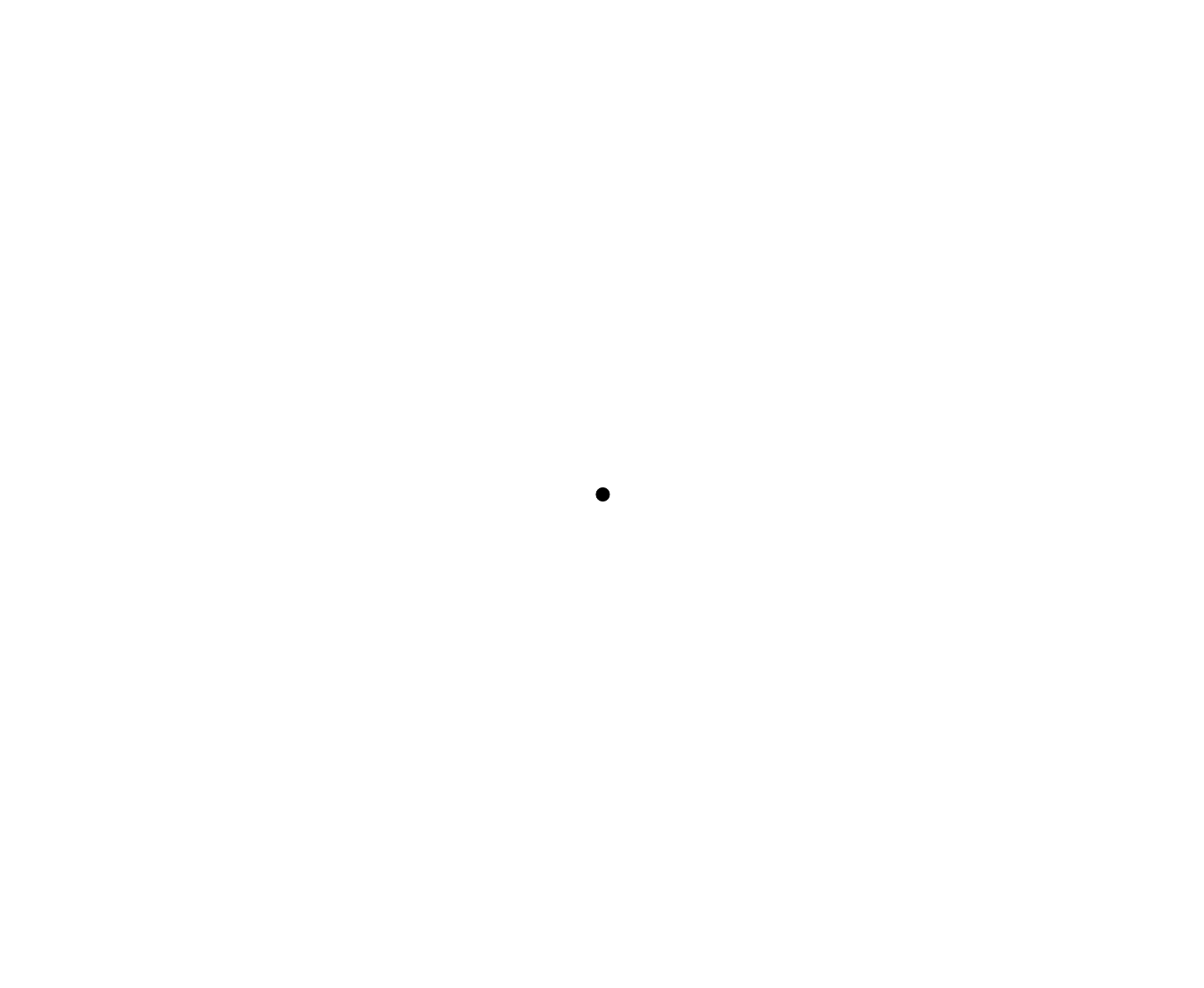
Use straightedge and compass moves to construct a square with segment as one of the sides.



### 3 Trying to Circle a Square

#### Student Task Statement

1. Here is square with diagonal drawn:
   1. Construct a circle centered at with radius .
   2. Construct a circle centered at with radius .
   3. Draw the diagonal and write a conjecture about the relationship between the diagonals and .
   4. Label the intersection of the diagonals as point and construct a circle centered at with radius . How are the diagonals related to this circle?
   * 
2. Use your conjecture and straightedge and compass moves to construct a square inscribed in a circle.

* 



© CC BY 2019 by Illustrative Mathematics®