## Unit 1 Lesson 3: Construction Techniques 1: Perpendicular Bisectors

### 1 Find All the Points! (Warm up)

#### Student Task Statement

Here are 2 points labeled and , and a line segment :



1. Mark 5 points that are a distance away from point . How could you describe all points that are a distance away from point ?
2. Mark 5 points that are a distance away from point . How could you describe all points that are a distance away from point ?
3. In a different color, mark all the points that are a distance away from both and at the same time.

### 2 Human Perpendicular Bisector

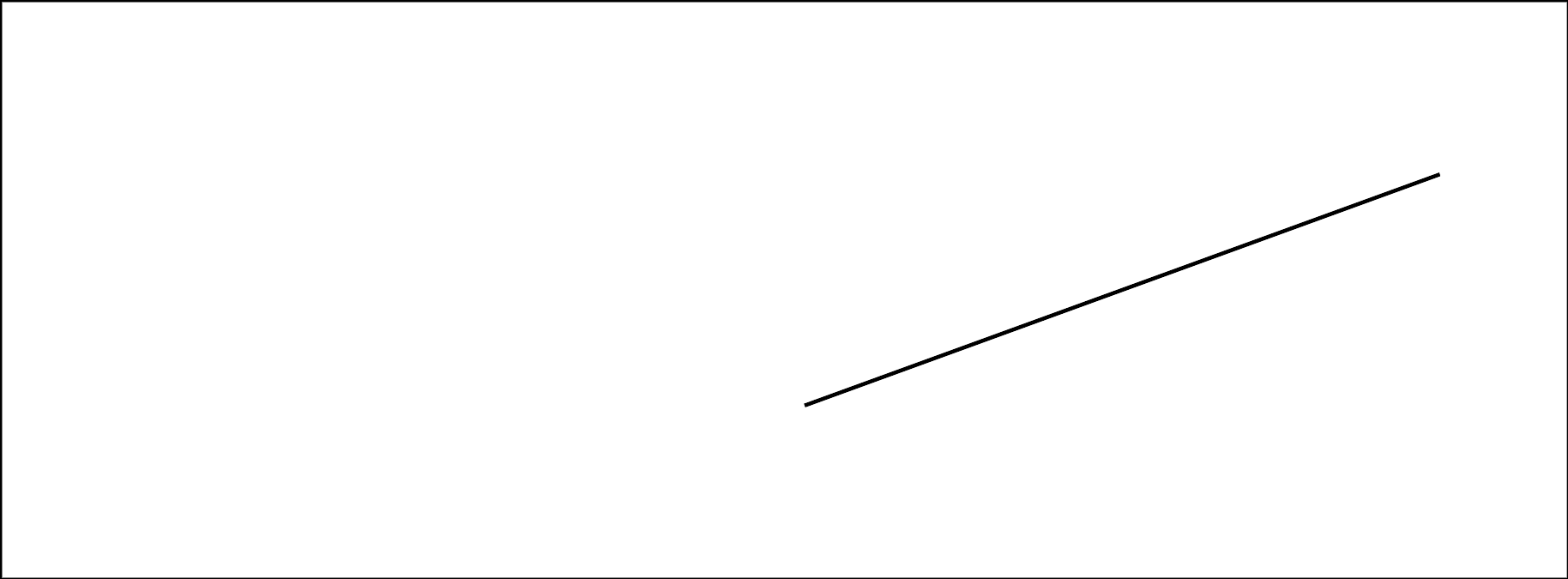
#### Student Task Statement

Your teacher will mark points and on the floor. Decide where to stand so you are the same distance from point as you are from point . Think of another place you could stand in case someone has already taken that spot.

After everyone sits down, draw a diagram of what happened.

### 3 How Well Can You Slice It?

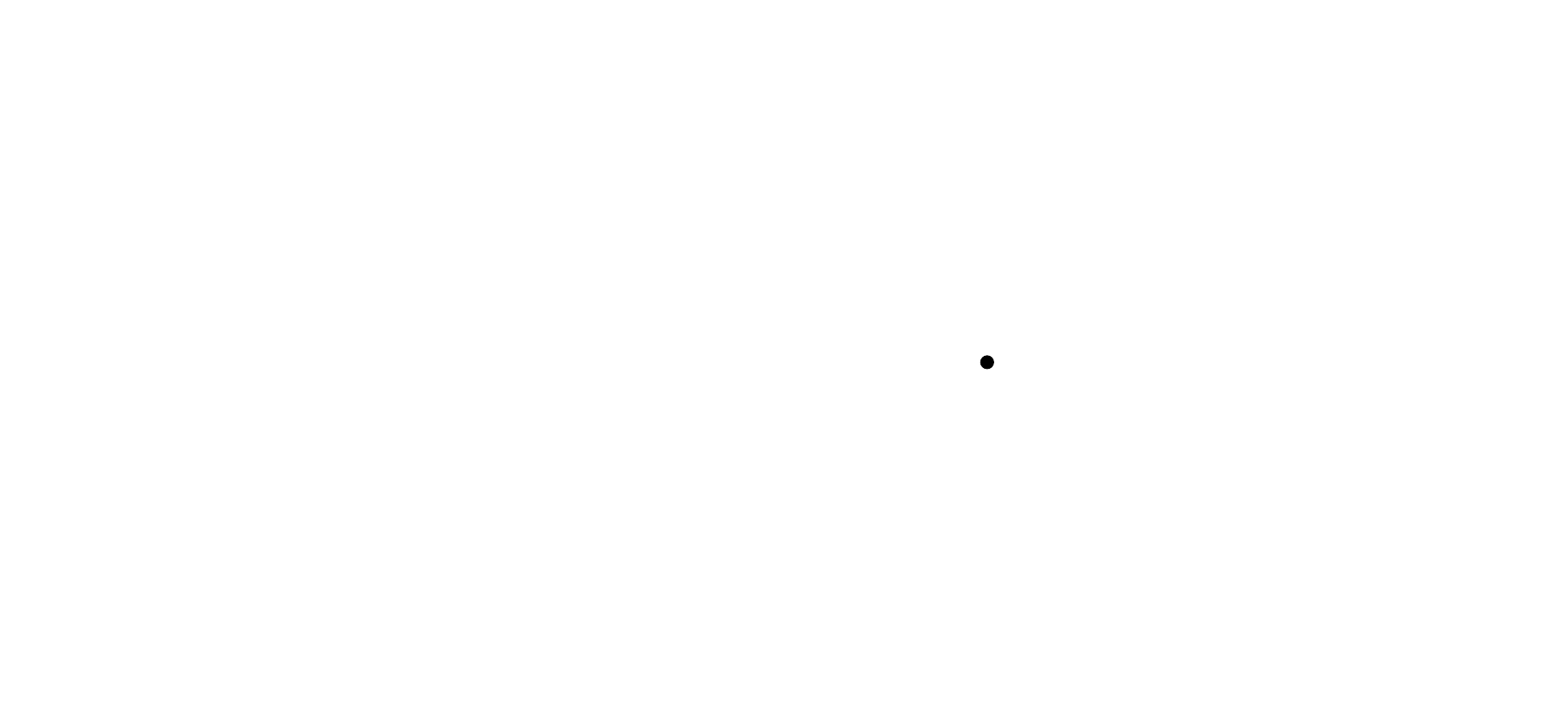
#### Images for Launch



#### Student Task Statement

Use the tools available to find the **perpendicular bisector** of segment .

After coming up with a method, make a copy of segment on tracing paper and look for another method to find its perpendicular bisector.



#### Images for Activity Synthesis





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