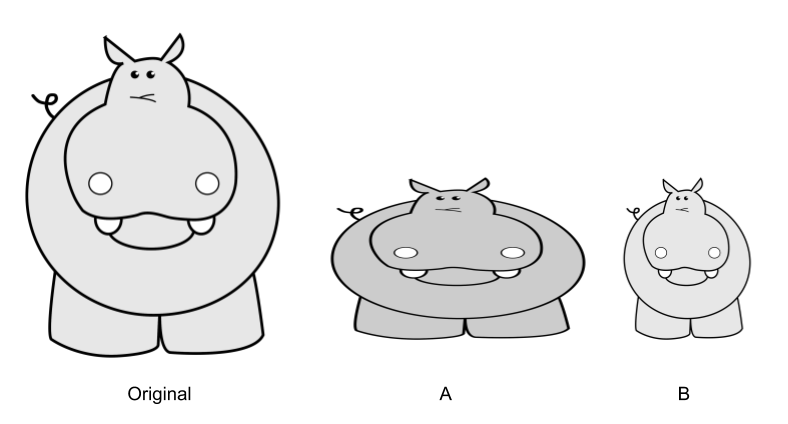
## Unit 3 Lesson 1: Scale Drawings

### 1 Is That the Same Hippo? (Warm up)

#### Student Task Statement

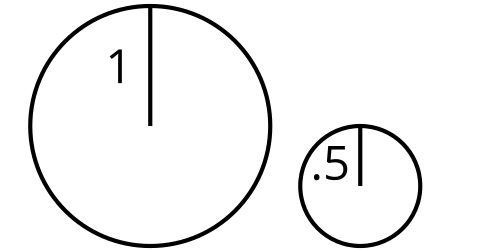


Diego took a picture of a hippo and then edited it. Which is the distorted image? How can you tell?

Is there anything about the pictures you could measure to test whether there’s been a distortion?

#### Activity Synthesis

Scale factor is 2 or

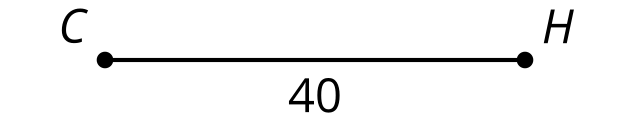


### 2 Sketching Stretching

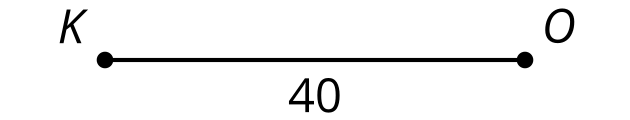
#### Student Task Statement

A **dilation** with center and positive **scale factor** takes a point along the ray  to another point whose distance is times farther away from than is. If  is less than 1 then the new point is really closer to , not farther away.

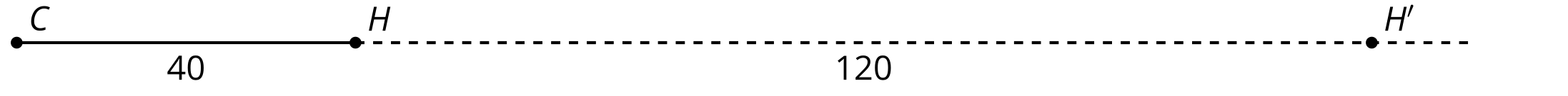
1. Dilate using as the center and a scale factor of 3. is 40 mm from .

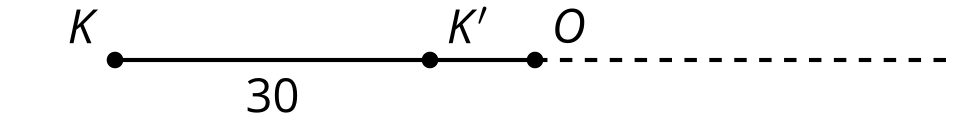
* 

1. Dilate using as the center and a scale factor of . is 40 mm from .

* 

#### Activity Synthesis

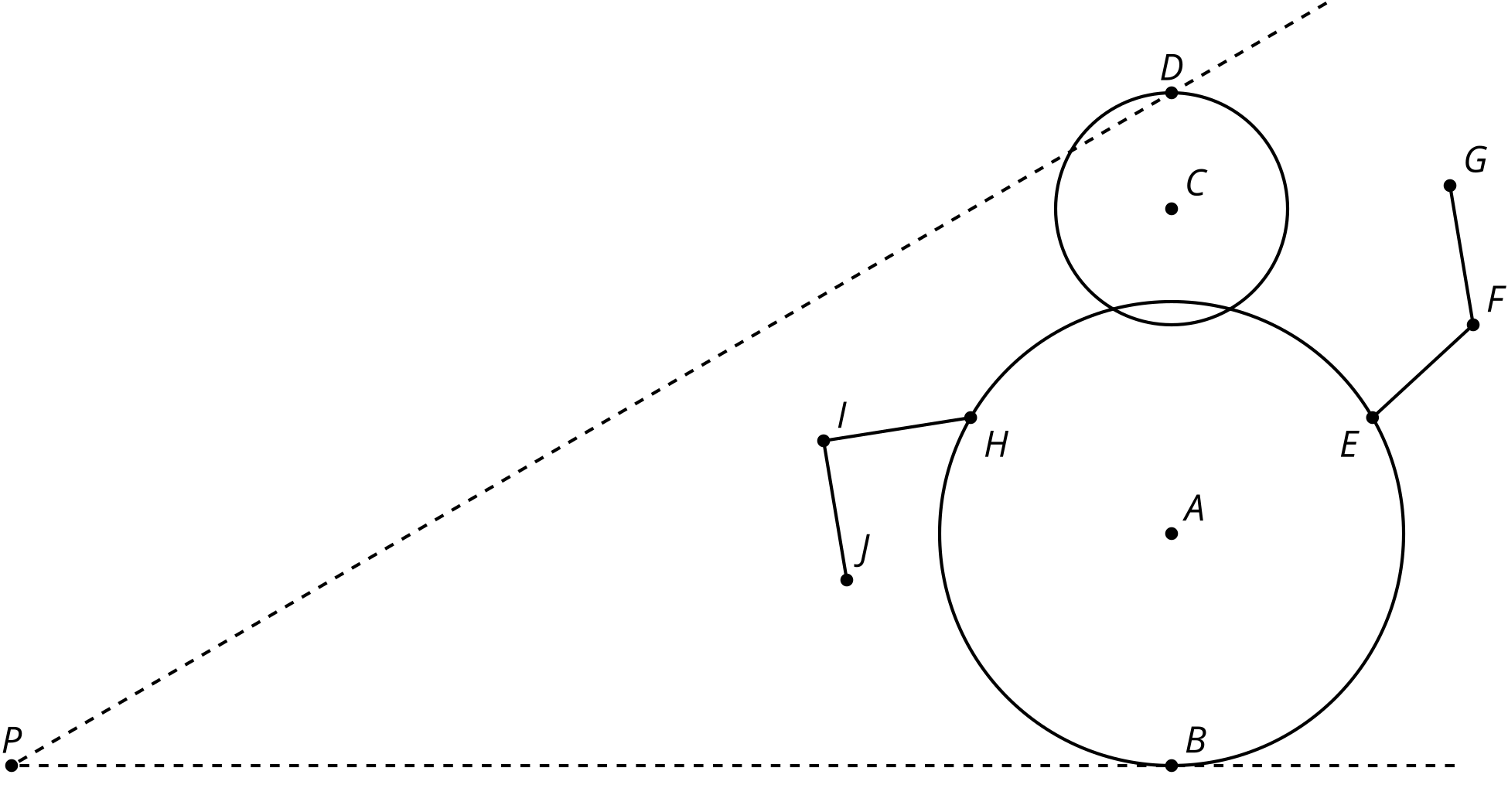




### 3 Mini Me

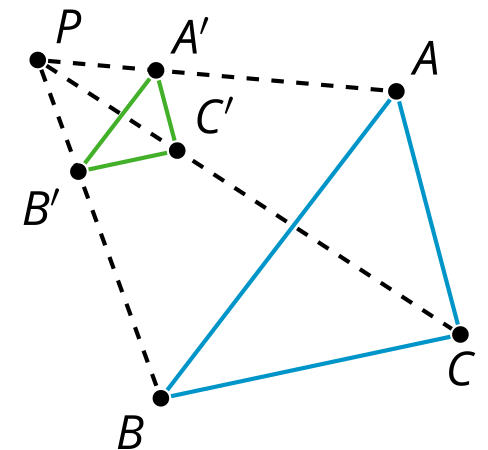
#### Student Task Statement

1. Dilate the figure using center and scale factor .

* 

1. What do you notice? What do you wonder?

#### Images for Activity Synthesis





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