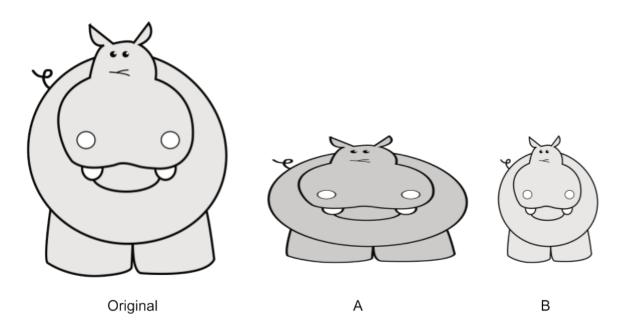
Unit 3 Lesson 1: Scale Drawings

1 Is That the Same Hippo? (Warm up)

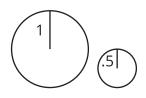
Student Task Statement



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 $\frac{1}{2}$

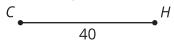


2 Sketching Stretching

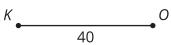
Student Task Statement

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

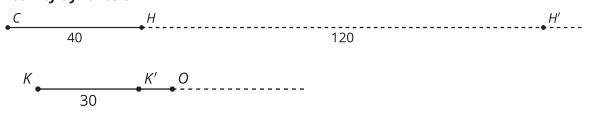
1. Dilate H using C as the center and a scale factor of 3. H is 40 mm from C.



2. Dilate *K* using *O* as the center and a scale factor of $\frac{3}{4}$. *K* is 40 mm from *O*.



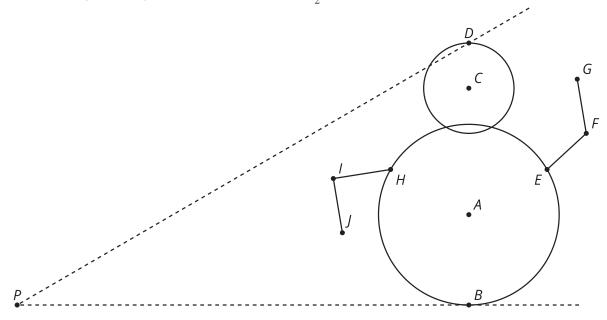
Activity Synthesis



3 Mini Me

Student Task Statement

1. Dilate the figure using center P and scale factor $\frac{1}{2}$.



2. What do you notice? What do you wonder?

Images for Activity Synthesis

