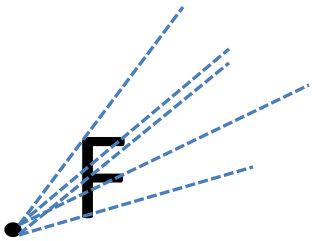
Construction Dilations

Use a ruler and a compass

Example



Dilation #1

- Draw letter F.
- Put a point of dilation away from F.
- Draw dilation lines through key points on letter F.
- Apply a dilation of scale factor k = 2.
- Label all points appropriately and write a similarity statement and ratio

Dilation #2

- Draw a large triangle.
- Put a point of dilation outside the triangle.
- Apply a dilation of scale factor k = ½.
- Label all points appropriately and write a similarity statement and ratio.

Dilation #3

- Make any polygon with 5 sides and label the points.
- Put a point of dilation somewhere inside your polygon.
- Apply a dilation of scale factor k = 3
- Label all points appropriately and write a similarity statement and ratio.

Questions:

State two different things you notice about corresponding sides from the original figure to the dilated figure?