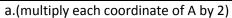
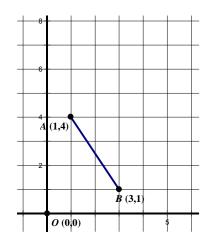
1. Using the graph to the right, dilate the line using a scale factor of n=2 and center at O.



b. (multiply each coordinate of B by 2)



- c) What do you think the relationship is between OA' and OA?
- d) What is the relationship between OB' and OB?

## 2. Circle whether the following situations are REDUCTIONS OR ENLARGEMENTS.

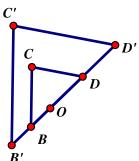
a) Scale Factor of 1:7 (pre-image : image)

b)  $D_{0,3}(H) = H'$ 

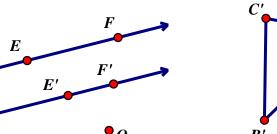


- Reduction or Enlargement
- Reduction or Enlargement
- Reduction or Enlargement

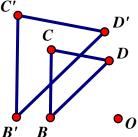
d) Reduction or Enlargement



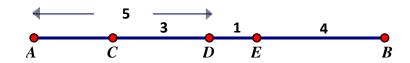
e) Reduction or Enlargement



f) Reduction or Enlargement



## 3. Determine the ratio. (Reduce the ratio)



a) AC : CD \_\_\_\_\_ : \_\_\_\_ : \_\_\_\_ : \_\_\_\_ : \_\_\_\_ : \_\_\_\_ : \_\_\_\_ : \_\_\_\_ : \_\_\_\_ : \_\_\_\_ :

## 4. Answer the following questions about the dilation, centered at O.

- a) Is this an enlargement or a reduction?

  Explain how you determined your answer.
- b) What scale factor do you think this is?

  Explain how you determined your answer.
- c) What angle is the same size as ∠OBA?

  Explain how you determined your answer.

