Name:	
Date: _	Period:



3. the angle properties of dilation.

a) What is true about $\angle OAB$ and $\angle OA'B'$?	b) What is true about $\angle OBA$ and $\angle OB'A'$?
~	~

c) How do we know this relationship is valid?

$\parallel \mathsf{lines} \to \mathsf{corresponding} \ \mathsf{angles} \cong$

d) What is the scale factor for the dilation that has occurred?

n=2



Do these relationships change when we dilate by a different value?

e) What is true about $\angle OAB$ and $\angle OA'B'$?	f) What is true about $\angle OBA$ and $\angle OB'A'$?
≅	≅

g) What is the scale factor for the dilation that has occurred?

 $\frac{1.5}{1} or \frac{6}{4} or \frac{4.5}{3} \Longrightarrow n = 1.5$

h) Does the scale factor affect the relationships that result from dilating?

No, other than segments are enlarged or reduced by different amounts.

Summary: When a dilation occurs:

1) Distances/Lengths change according to the scale factor (n)

2) Slopes stay the same which results in parallels

3) Angles stay the same

