Nam	e: Period: Date:
Pe	rimeters and Areas of Similar Figures Bell Work aderline the correct word to complete each sentence.
a.	In similar figures, the ratio of the <i>areas / perimeters</i> equals the ratio of corresponding sides.
b.	In similar figures, the ratio of the <i>areas / perimeters</i> equals the ratio of the squares of corresponding sides.
c.	The radii of a regular polygon are / are not congruent.
2. Co	omplete the following statements.
a. b.	If two polygons are similar with the lengths of corresponding sides in the ratio of a:b, then the ratio of their perimeters is Scale factor is the ratio of the lengths of the of two similar figures.
c.	The perimeters and areas are related by the
3. Aı	nswer with YES or NO.
a.	Are the corresponding sides of similar figures always proportional?
b.	Are the corresponding angles of similar figures always congruent?
c.	Any two regular polygons with the same number of sides are similar.
Mult	tiple Choices
4. The ratio of the lengths of corresponding sides of two similar hexagons is 2: 5. What is the ratio of their areas?	
a.	4: 25
b.	2:5
c.	$\sqrt{2}$: $\sqrt{5}$
5. Th	ne ratio of the areas of two similar hexagons is 16: 81. What is the ratio of their perimeters?
a.	4: 9
b.	4: 3
c.	1: 9