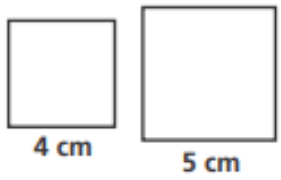
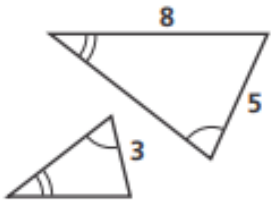
Geometry Name:_____
Area/Perimeters of Similar figures

**For each pair of similar figures, find the ratio of the perimeters and the ratio of the areas.**

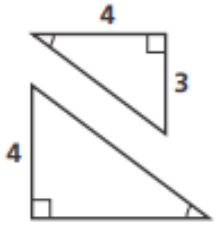
**1.**




**2.**




**3.**




**Find the similarity ratio of each pair of similar figures.**

**4.** two regular hexagons with areas 8 $in.^2$ and 32 $in.^2$

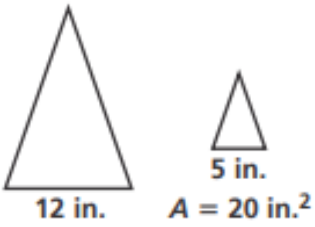
**5.** two squares with areas 81 $cm^2$ and 25 $cm^2$

**6.** two triangles with areas 10 $ft^2$ and 360 $ft^2$

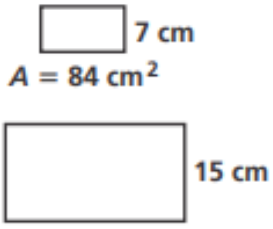
**7.** two circles with areas $128\pi$ $cm^2$ and $18\pi$ $cm^2$

**For each pair of similar figures, the area of the smaller figure is given. Find the area of the larger figure.**

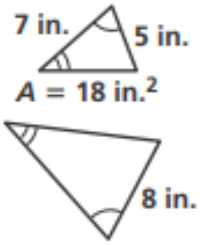
**8.**




**9.**

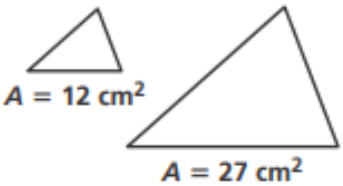



**10.**

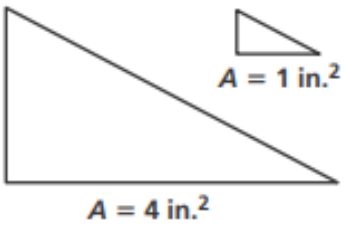



**For each pair of similar figures, find the ratio of the perimeters.**

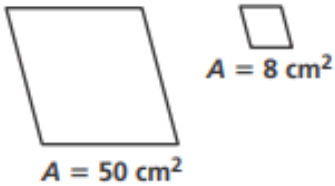
**11.**




**12.**




**13.**



1. If figure A and figure B are similar with a ratio of similarity of $\frac{5}{4}$ and the perimeter of figure A is 18 units, what is the perimeter of figure B?

2. If figure A and figure B are similar with a ratio of similarity of $\frac{1}{8}$ and the area of figure A is 13 square units, what is the area of figure B?

3. If figure A and figure B are similar with a ratio of similarity of 6, and the perimeter of figure A is 54 units, what is the perimeter of figure B?

4. If figure A and figure B are similar with a ratio of their perimeters is $\frac{17}{6}$ what is their ratio of similarity?

5. If figure A and figure B are similar with a ratio of their areas is $\frac{49}{9}$ what is their ratio of similarity?