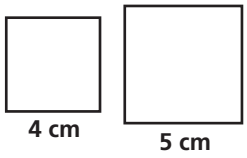
Name _____ Class _____ Date _____

Practice 10-4

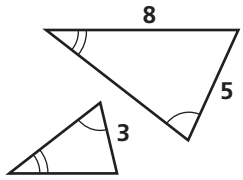
Perimeters and Areas of Similar Figures

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

1. _____



2. _____



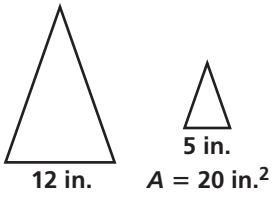
Find the similarity ratio of each pair of similar figures.

3. two regular hexagons with areas 8 in.^{2} and 32 in.^{2} _____

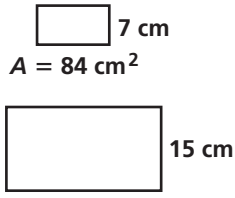
4. two circles with areas 128π cm^2 and 18π cm^2 _____

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

5. _____

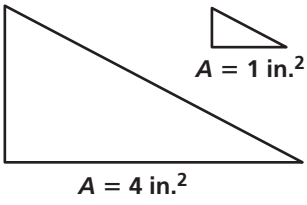


6. _____

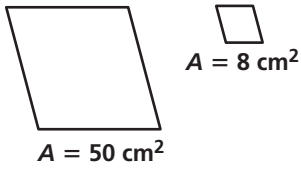


For each pair of similar figures, find the ratio of the perimeters.

7. _____



8. _____



9. The shorter sides of a rectangle are 6 ft. The shorter sides of a similar rectangle are 9 ft. The area of the smaller rectangle is 48 ft^2. What is the area of the larger rectangle? _____