Scale Factor: Perimeter and Area

Independent Set 5.02

Name_____
Date_____
Period_____

Six questions, on your own, in silence. Show the step that does the work.

1. A figure with perimeter 18 cm is scaled by $k = 3$. Find the copy's perimeter.

2. A figure with area $7\,\text{cm}^2$ is scaled by $k = 3$. Find the copy's area.

3. A figure with area $40\,\text{cm}^2$ is scaled by $k = \frac{1}{2}$. Find the copy's area.

4. A 2 cm by 5 cm rectangle is scaled by $k = 2.5$. Find the copy's perimeter and area.

5. A figure has area $9\,\text{cm}^2$ and its scale copy has area $144\,\text{cm}^2$. Find k.

6. A figure's perimeter is 12 cm and its copy's perimeter is 48 cm. What is the area ratio, copy to original?