

Perimeters and Areas of Similar Figures Exit Quiz

1. The scale factor of two similar polygons is **2:3**. The perimeter of the larger polygon is **111 ft**. What is the perimeter of the smaller polygon?

2. Find the scale factor and the ratio of the perimeters for

two regular octagons with areas:

$$A_1 = 225 m^2 \qquad A_2 = 675 m^2$$

3. Find the value of x .

$$\frac{a}{b} = \frac{1}{3}$$

$$A_1 = 2x$$

$$A_2 = 2x + 4$$

4. Find the value of y .

$$\frac{a}{b} = \frac{4}{5}$$

$$P_1 = 2y - 3$$

$$P_2 = y - 2$$

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5. Find the value of z .

