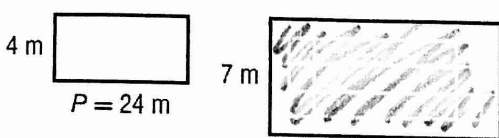


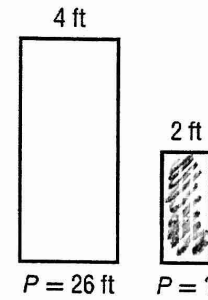
Area and Perimeter of Similar Figures Homework

For each pair of similar figures, find the perimeter of the second figure.

1. 

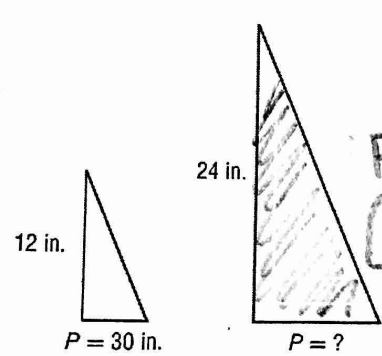
$P = 24 \left(\frac{7}{4}\right)$

$P = 42 \text{ m}$

2. 

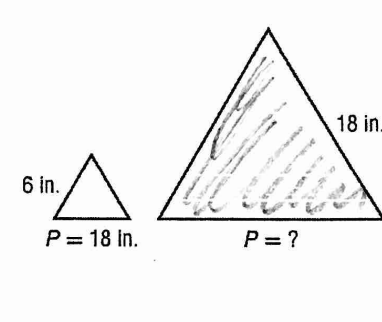
$P = 26 \cdot \left(\frac{2}{4}\right)$

$P = 13 \text{ ft}$

3. 

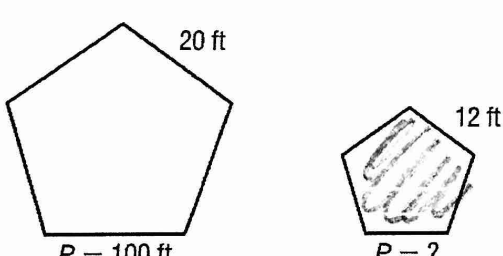
$P = 30 \cdot \left(\frac{24}{12}\right)$

$P = 60 \text{ in}$

4. 

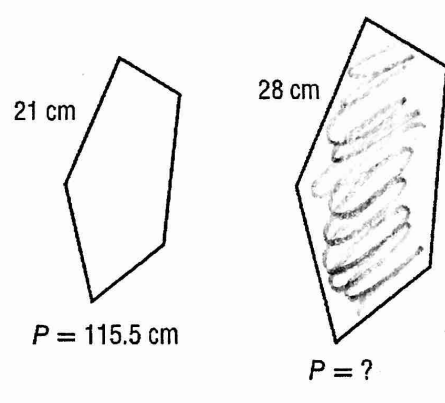
$P = 18 \cdot \left(\frac{18}{6}\right)$

$P = 54 \text{ in}$

5. 

$P = 100 \cdot \left(\frac{12}{20}\right)$


$P = 60 \text{ ft}$

6. 

$P = 115.5 \cdot \left(\frac{28}{21}\right)$

$P = 154 \text{ cm}$

7. A triangle has a side length of 3 inches and an area of 22 square inches. A similar triangle has a corresponding side length of 6 inches. Find the area of the larger triangle.

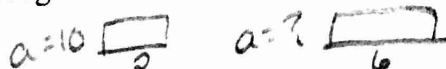


$A = 22 \cdot \left(\frac{6}{3}\right)^2$

$A = 22 \cdot 4$

$A = 88 \text{ in}^2$

8. A rectangle has a side length of 2 feet and an area of 10 square feet. A similar rectangle has a corresponding side length of 6 feet. Find the area of the larger rectangle.

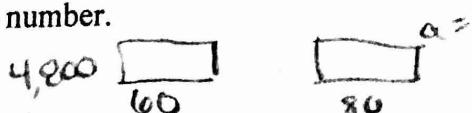


$A = 10 \cdot \left(\frac{6}{2}\right)^2$

$A = 10 \cdot 9$

$A = 90 \text{ ft}^2$

9. LAKE LOT A rectangular shaped lake lot has an area of 4,800 square feet. The width of the lot is 60 feet. A similar lot across the road has a width of 80 feet. What is the area of the lot across the road? Round your answer to the nearest whole number.



$A = 4,800 \cdot \left(\frac{80}{60}\right)^2$

$A = 4,800 \cdot \left(\frac{4}{3}\right)^2$

$A = 4,800 \cdot \frac{16}{9}$

$A = 8533.33$

$A = 8533 \text{ ft}^2$