Multi-Part Lesson 3 PART B

NAME _____ DATE _____ PERIOD _____

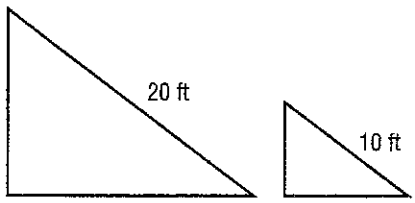
Homework Practice

17 Q 10 pt

Perimeter and Area of Similar Figures

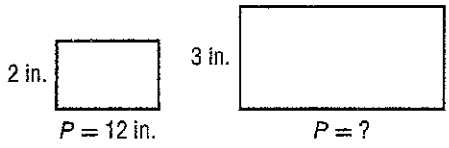
For each pair of similar figures, find the perimeter of the second figure.

1.



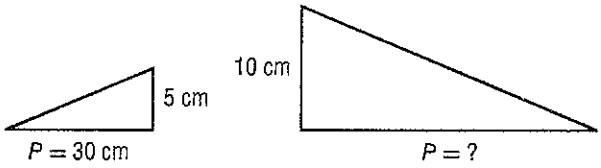
P = 24 ft

2.



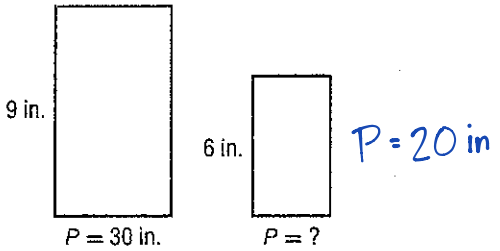
P = 18 in

3.



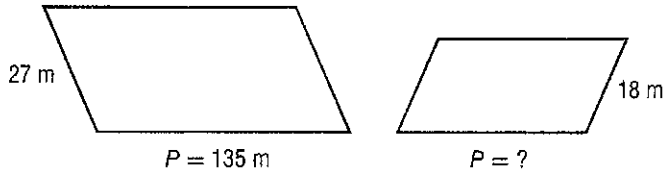
P = 60 cm

4.



P = 20 in

5.



P = 90 m

6. A triangle has a side length of 4 inches and an area of 18 square inches and a larger similar triangle has a corresponding side length of 8 inches. Find the area of the larger triangle.

4 in, A = 18 in² 8 in, A = ? A = 72 in²

7. A rectangle has a side length of 3 feet and an area of 24 square feet. A larger similar rectangle has a corresponding side length of 9 feet. Find the area of the larger rectangle.

3 ft, A = 24 ft² 9 ft, A = ? A = 216 ft²

8. FLOWER GARDEN A rectangular shaped flower garden has a length of 5 yards and an area of 15 square yards. A neighbor's flower garden is similar and has a length of 7 yards. What is the area of the neighbor's flower garden? Round your answer to the nearest whole number.

5 yd, A = 15 yd² 7 yd, A = ? A = 29 yd²

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Multi-Part Lesson 3 PART B

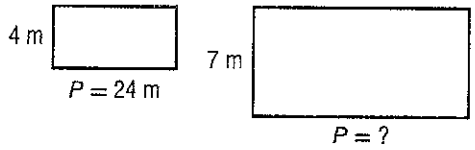
NAME _____ DATE _____ PERIOD ____

Skills Practice

Perimeter and Area of Similar Figures

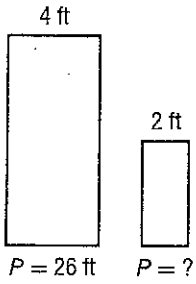
For each pair of similar figures, find the perimeter of the second figure.

1.



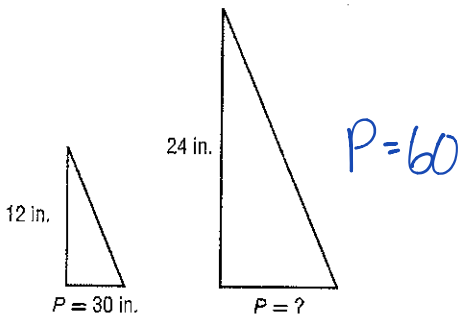
P = 42 m

2.



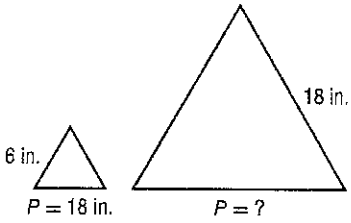
P = 13 ft

3.



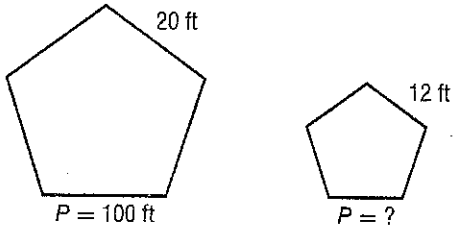
P = 60

4.



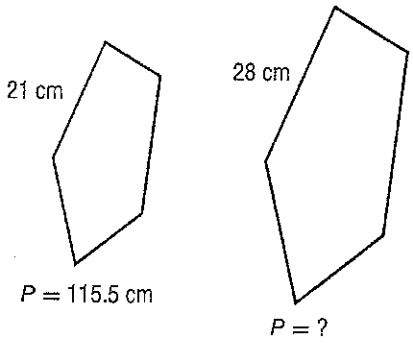
P = 54 in

5.



P = 60 ft

6.



P = 154 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.

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

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.

$A = 40 \text{ ft}^2$

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.

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