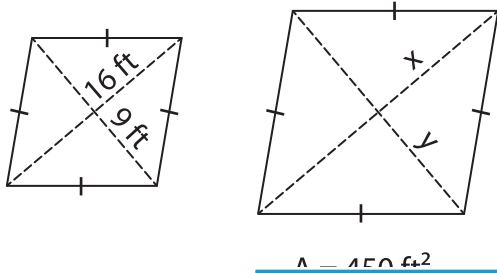


Scale Factor - Finding Sides

Each pair of figures is similar. Find x and y . (A denotes Area and P denotes Perimeter)

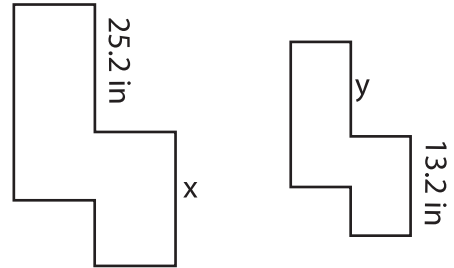
1)



$A = 150 \text{ ft}^2$

$x = \underline{\hspace{2cm}}$;

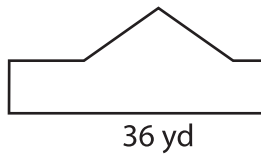
2)



$P = 79.2 \text{ in}$

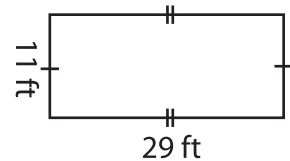
$y = \underline{\hspace{2cm}}$

3)



$A = 243 \text{ yd}^2$

$x = \underline{\hspace{2cm}}$;



$y = \underline{\hspace{2cm}}$

5) A and B are similar isosceles trapezoids. The top base of A is 10 inches, the bottom base is 20 inches, and the height is 4 inches. The top base of B is 14 inches, the bottom base is 28 inches, and the height is 5.6 inches. The area of A is 140 square inches. Find the area of B.

6) A and B are similar rectangles. The length of A is 10 inches, the width is 5 inches, and the perimeter is 30 inches. The length of B is 14 inches, the width is y inches, and the perimeter is 54 inches. Find y.

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6) In a trapezoid G, the parallel bases are 15 yards and 21 yards. The distance between the parallel sides is 16 yards. If the area of a similar trapezoid H is 8 square yards, find the length of its parallel sides.