

Scale Factor - Finding Sides

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

1)

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

2)

$P = 16 \text{ ft}$

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

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

3)

$P = 151.2 \text{ in}$

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

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

5) The perimeters of two similar parallelograms are 12 and 48. The perimeter of the smaller parallelogram is 12. Find the perimeter of the larger parallelogram.

_____ the adjacent sides of the larger parallelogram are 10 and 15. Find the perimeter of the smaller parallelogram.

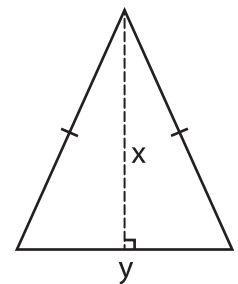
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$A = 324 \text{ yd}^2$

6) P and Q are similar kites. The diagonals of Q are 4 inches and 16 inches long. Determine the length of diagonals of P, if its area is 8 square inches.