

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)

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

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

3)

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

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

5) The perimeters of two similar parallelograms are 40 and 100. The perimeter of the smaller parallelogram is 40. Find the perimeter of the larger parallelogram.

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

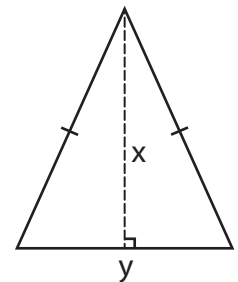
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$A = 324 \text{ yd}^2$

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.

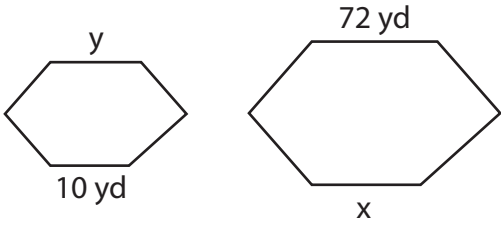
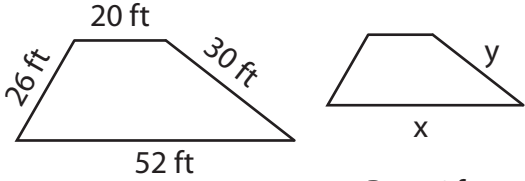
Name : _____

Answer key

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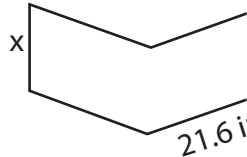
Sheet 1

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

- 1)  2) 

$x = \underline{45 \text{ yd}}$;

; $y = \underline{3.75 \text{ ft}}$

- 3) 

$x = \underline{8.64 \text{ in}}$;

; $y = \underline{15 \text{ yd}}$

- 5) The perimeters of two similar parallelograms are 100 and 250. The adjacent sides of the smaller parallelogram are 10 and 15. Find the adjacent sides of the larger parallelogram.

the adjacent sides of the larger parallelogram are _____ and _____.

The adjacent sides of the larger parallelogram measure 6.75 feet and 15.75 feet.

- 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.

The length of diagonals of kite P are 2 inches and 8 inches.

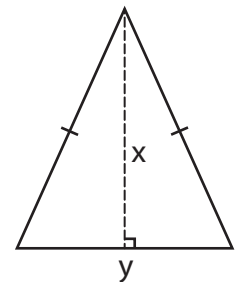
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