

Name : _____

Scale Factor - Finding Sides

Sheet 2

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

1)

$P = 31.5$ in

$x =$ _____ ;

2)

$A = 7$ yd^2

$A = 343$ yd^2

$y =$ _____

3)

$A = 125$ ft^2

$x =$ _____ ;

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$P = 72.9$ in

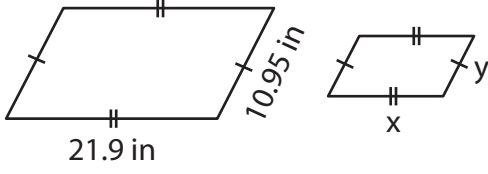
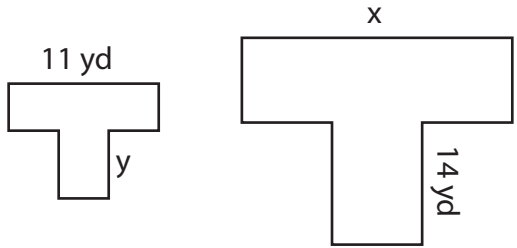
$y =$ _____

5) Rectangle M and rectangle N are similar. Rectangle M has a length of 20 yards and a width of 4 yards respectively. Rectangle N has a length of x yards and a width of y yards. Find x and y .

6) The perimeters of two similar scalene triangles are 84 feet and 70 feet. If the two sides of the larger triangle measure 41.4 feet and 16.92 feet, find the corresponding sides of the smaller triangle.


Scale Factor - Finding Sides

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

1)  2) 

$P = 31.5 \text{ in}$ $A = 7 \text{ yd}^2$ $A = 343 \text{ yd}^2$

$x = \underline{10.5 \text{ in}}$; $y = \underline{2 \text{ yd}}$

3) 

$A = 125 \text{ ft}^2$ $P = 72.9 \text{ in}$

$x = \underline{15 \text{ ft}}$; $y = \underline{12 \text{ in}}$

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5) Rectangle M and rectangle N are similar. Rectangle M has a length of 20 yards and a width of 4 yards respectively. Rectangle N has a length of x yards and a width of y yards respectively.

The length and width of rectangle N are 45 yards and 9 yards respectively.

6) The perimeters of two similar scalene triangles are 84 feet and 70 feet. If the two sides of the larger triangle measure 41.4 feet and 16.92 feet, find the corresponding sides of the smaller triangle.

The corresponding sides of the smaller triangle measure 34.5 feet and 14.1 feet.