

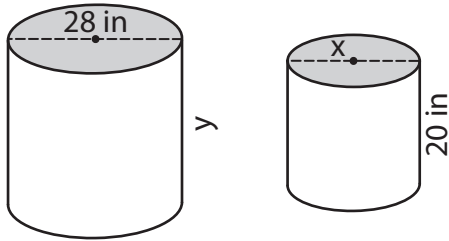
Name : _____

Scale Factor - Finding Sides

Sheet 3

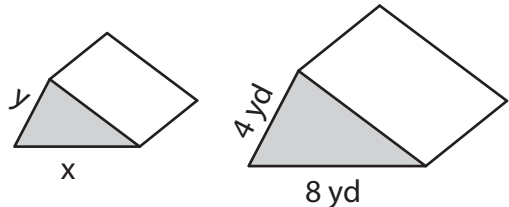
Each pair of figures is similar. Find x and y (SA denotes Surface Area and V denotes Volume).

1)



$V = 5488\pi \text{ in}^3$ $V = 2000\pi \text{ in}^3$

2)

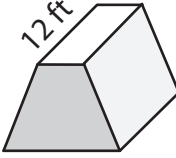


$SA = 30 \text{ yd}^2$ $SA = 1920 \text{ yd}^2$

$x =$ _____

$y =$ _____

3)



$V = 256 \text{ ft}^3$

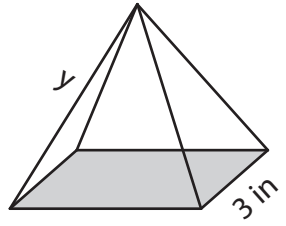
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$SA = 315 \text{ in}^2$

$x =$ _____ ;

$y =$ _____

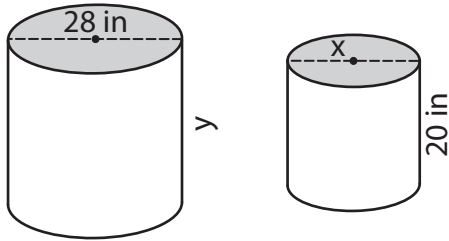
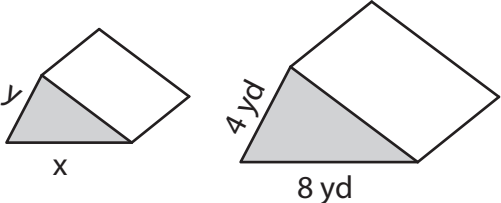
5) The surface areas of _____ respectively. The height of the larger is _____ feet and the smaller is _____ feet respectively. Find the height and the surface area of the smaller figure.

_____ and 132 square feet respectively. Find the height and the surface area of the smaller figure.

6) The volumes of two similar cones are 125π cubic yards and 5.832π cubic yards. If the diameter and height of the larger cone are 10 yards and 15 yards respectively, find the diameter and height of the smaller cone.

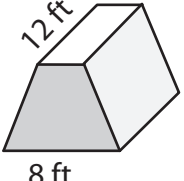
Scale Factor - Finding Sides

Each pair of figures is similar. Find x and y (SA denotes Surface Area and V denotes Volume).

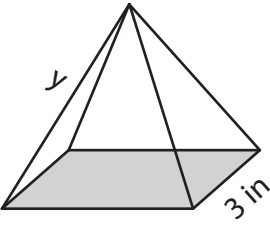
1)  2) 

x = 20 in

; y = 0.5 yd

3) 

x = 18 ft ;



; y = 9 in

5) The surface areas of two similar figures are 144 square feet and 132 square feet respectively. The height of the larger figure is 12 feet. Find the height and the surface area of the smaller figure.

6) The surface areas of two similar figures are 144 square feet and 132 square feet respectively. The height of the larger figure is 12 feet. Find the height and the surface area of the smaller figure.

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The height and the shortest side of the pyramid Z are 21 feet and 6 feet respectively.

6) The volumes of two similar cones are 125π cubic yards and 5.832π cubic yards. If the diameter and height of the larger cone are 10 yards and 15 yards respectively, find the diameter and height of the smaller cone.

The diameter and height of the smaller cone are 3.6 yards and 5.4 yards respectively.