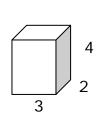
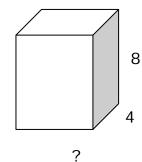
Each set of three figures below are similar within the set.

1. Fill in the blanks for the missing measurements in prism B and prism C. What is the scale factor for prism B _____? For prism C_____?

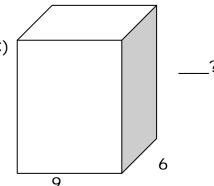












2. Find the volume for prism A, and then find the volume for Prism B and for C using the scale factor for each.

A)

B)

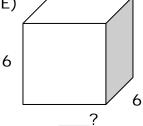
C)

3. Fill in the blanks for the missing measurements prism E and prism F. What is the scale factor for prism E _____? For prism F_____?

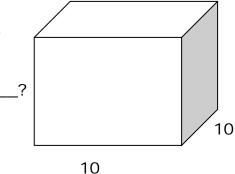
D)



E)



F)



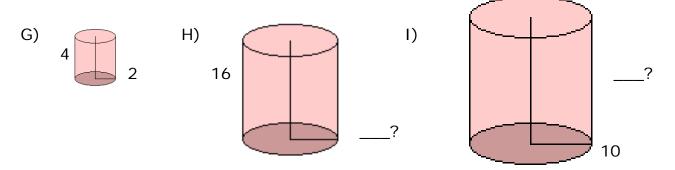
4. Find the volume for prism D, and then find the volume for Prism E and for F using the scale factor for each.

D)

E)

F)

5. Fill in the blanks for the missing measurements for cylinder H and cylinder I. What is the scale factor for cylinder H _____? For cylinder I_____?



- 6. Find the volume for prism G, and then find the volume for Prism H and for I using the scale factor for each.
- G) H) I)
- K) Explain the relationship between the scale factor and the volume of two similar figures.
- L) Complete the table below for the given dimensions and scale factors of the similar figures described.

Dimensions of a	Volume of the	Scale factor	Volume for larger
smaller figure	smaller figure	for a larger	figure
		figure	
Rectangular prism:			
I = 3, $W = 5$, $h = 4$		4	
Cube:			
<i>S</i> = 5		3	
Cylinder:			
r = 3, $h = 10$		2	
Rectangular prism:			
I = 8, $W = 2.5$, $h = 4$		5	
Cube:			
S = 4		2	
Cylinder:			
r = 6, h = 5		3	