

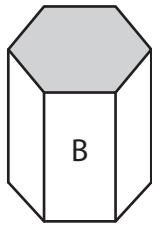
Name : _____

Scale Factors - Volumes

L1S1

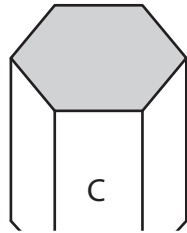
Each pair of figures is similar. Find the missing volume. (V denotes Volume)

1) Scale factor of C to B is 8 : 1.3

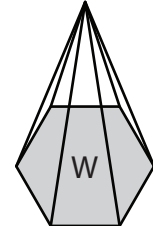
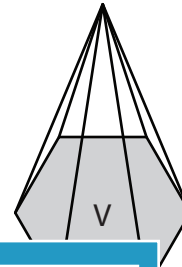


$V = ?$

Volume of figure B



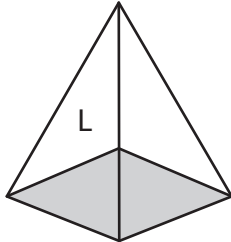
2) Scale factor of W to V is 5 : 6



$V = 1,125 \text{ ft}^3$

Volume of figure W = _____

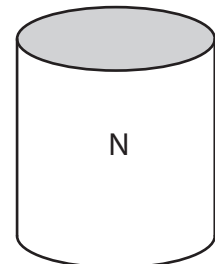
3) Scale factor of L to K is 2.2 : 3



$V = 68.6 \text{ in}^3$

Volume of figure K

Volume of figure N is 2.2 : 3



$V = ?$

Volume of figure M = _____

5) Q and R are similar figures. If the volume of Q is 2 cubic inches, what would be the volume of R, if the scale factor of R to Q is 3 : 2?

6) The scale factor of two similar cones is 9.1 : 2.4. If the volume of the larger cone is 753.571 cubic inches, what would be the volume of the smaller cone?

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Name : _____

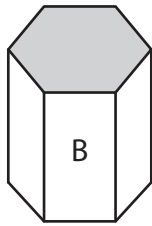
Answer key

Scale Factors - Volumes

L1S1

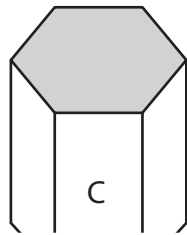
Each pair of figures is similar. Find the missing volume. (V denotes Volume)

1) Scale factor of C to B is 8 : 1.3

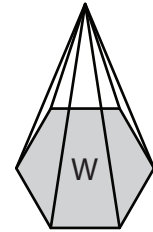
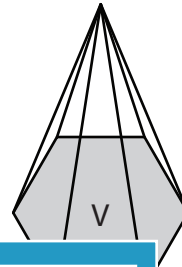


V = ?

Volume of figure B



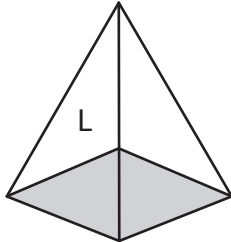
2) Scale factor of W to V is 5 : 6



V = 1,125 ft³

Volume of figure W = 1,944 ft³

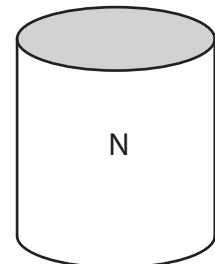
3) Scale factor of L to K is 2.2 : 3



V = 68.6 in³

Volume of figure K

Scale factor of M to N is 2.2 : 3



V = ?

Volume of figure M = 135 yd³

5) Q and R are similar figures. If the volume of Q is 2 cubic feet, what is the volume of R, if the scale factor of R to Q is 5.2 : 2.4?

686 cubic feet

6) The scale factor of two similar cones is 9.1 : 2.4. If the volume of the larger cone is 753.571 cubic inches, what would be the volume of the smaller cone?

13.824 cubic inches

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