

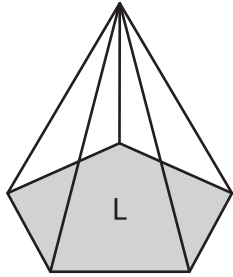
Name : _____

Scale Factors

Sheet 2

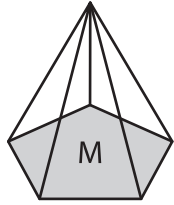
Each pair of figures is similar. Find the scale factor. (SA denotes Surface Area and V denotes Volume)

1)



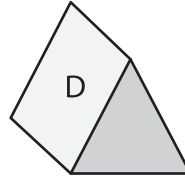
$$V = 1,152 \text{ yd}^3$$

Scale factor of L to M

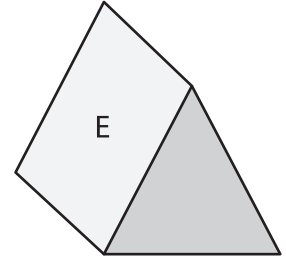


$$V = 13.122 \text{ yd}^3$$

2)



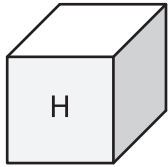
$$SA = 75 \text{ in}^2$$



$$SA = 108 \text{ in}^2$$

Scale factor of D to E is _____

3)



$$V = 686 \text{ ft}^3$$

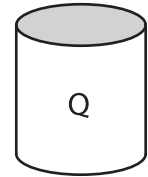
Scale factor of H to G

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$$SA = 135 \text{ yd}^2$$

Scale factor of G to Q is _____

Scale factor of H to G is _____

Scale factor of G to Q is _____

5) The volumes of two similar rectangular prisms are 1,250 cubic feet and 1,125 cubic feet. Determine the scale factor of the larger prism to the smaller prism.

6) T and U are similar pentagonal prisms. Find the scale factor of T to U, if the surface areas of T and U are 1,536 square inches and 24 square inches respectively.
