

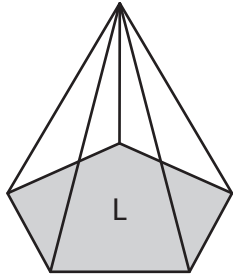
Name : _____

Scale Factors

Sheet 2

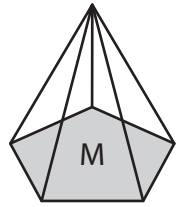
Each pair of figures is similar. Find the scale factor. (SA denotes Surface Area and V denotes Volume)

1)



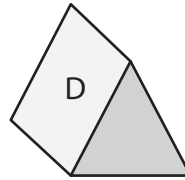
$$V = 1,152 \text{ yd}^3$$

Scale factor of L to M

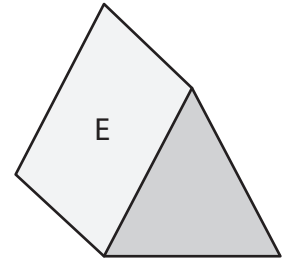


$$V = 13.122 \text{ yd}^3$$

2)



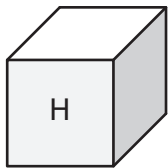
$$SA = 75 \text{ in}^2$$



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

Scale factor of D to E is _____

3)



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

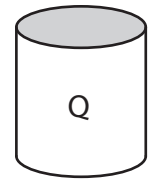
Scale factor of H to G

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

Scale factor of N to Q is _____

Scale factor of N 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.

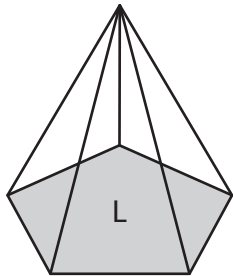
Scale factor of N to Q is _____

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.

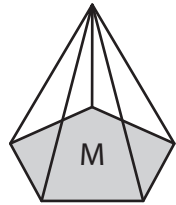
Scale Factors

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

1)



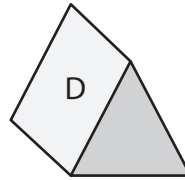
$V = 1,152 \text{ yd}^3$



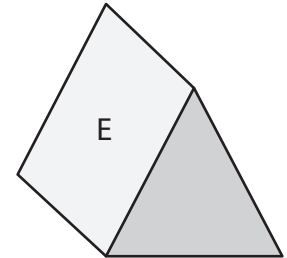
$V = 13.122 \text{ yd}^3$

Scale factor of L to M

2)



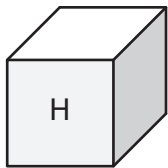
$SA = 75 \text{ in}^2$



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

Scale factor of D to E is 6 : 5

3)



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

Scale factor of H to G

PREVIEW

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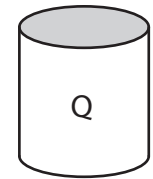
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$V = 1,250 \text{ yd}^3$

Scale factor of N to Q is 8 : 3



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

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.

Scale factor of N to Q is 8 : 3

3.2 : 5

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.

8 : 1