

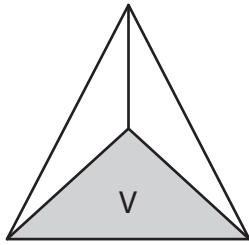
Name : \_\_\_\_\_

## Scale Factors

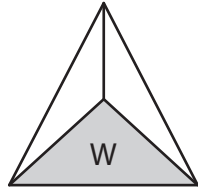
Sheet 3

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

1)



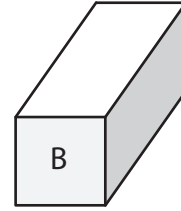
$$SA = 63 \text{ in}^2$$



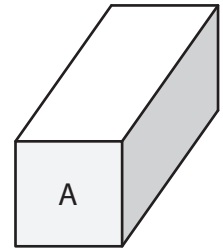
$$SA = 15.75 \text{ in}^2$$

Scale factor of W to V is \_\_\_\_\_

2)



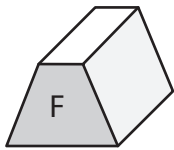
$$V = 48 \text{ ft}^3$$



$$V = 4,374 \text{ ft}^3$$

Scale factor of B to A is \_\_\_\_\_

3)



$$SA = 225 \text{ yd}^2$$

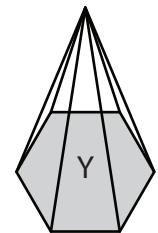
Scale factor of E to F is \_\_\_\_\_

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$$V = 432 \text{ in}^3$$

Scale factor of X to Y is \_\_\_\_\_

5) R and S are similar cylindrical prisms with surface areas of 100 square yards and 551.368 square yards respectively. Find the scale factor of R to S.

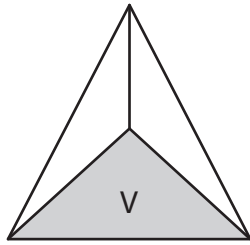
Scale factor of R to S is \_\_\_\_\_

6) What will be the scale factor of the smaller octagonal prism to the larger octagonal prism, if their surface areas are 735 square feet and 240 square feet?

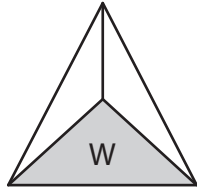
**Scale Factors**

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

1)



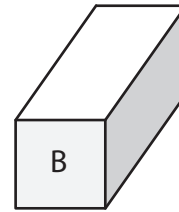
SA = 63 in<sup>2</sup>



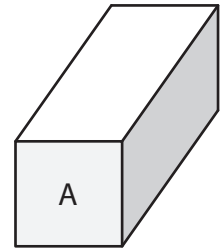
SA = 15.75 in<sup>2</sup>

Scale factor of W to V

2)



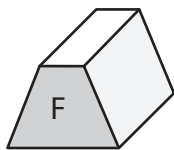
V = 48 ft<sup>3</sup>



V = 4,374 ft<sup>3</sup>

Scale factor of B to A is 2:9

3)



SA = 225 yd<sup>2</sup>

Scale factor of E to F is

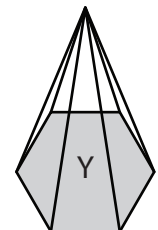
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V = 432 in<sup>3</sup>

Scale factor of X to Y is 3:8

5) R and S are similar cylindrical prisms with surface areas of 100 square yards and 551.368 square yards respectively.

Scale factor of R to S is 6:4.1

6) What will be the scale factor of the smaller octagonal prism to the larger octagonal prism, if their surface areas are 735 square feet and 240 square feet?

4:7