

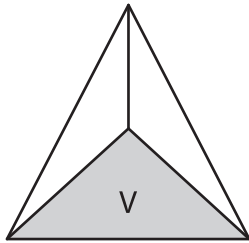
Name : _____

Scale Factors

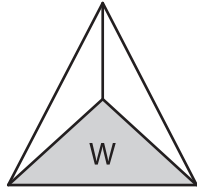
Sheet 3

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

1)



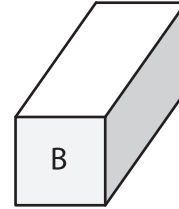
$$SA = 63 \text{ in}^2$$



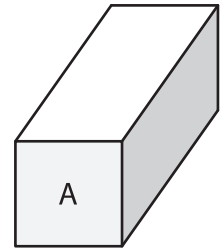
$$SA = 15.75 \text{ in}^2$$

Scale factor of W to V is _____

2)



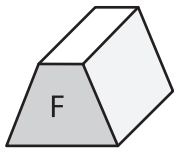
$$V = 48 \text{ ft}^3$$



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

Scale factor of B to A is _____

3)



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

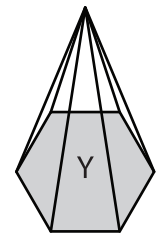
Scale factor of E to F is _____

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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?