

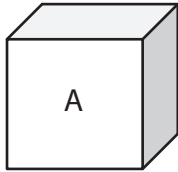
Name : _____

Scale Factors - Surface Areas

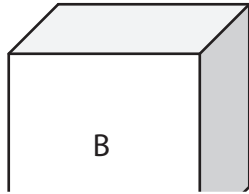
L1S3

Each pair of figures is similar. Find the missing surface area. (SA denotes Surface area)

1) Scale factor of A to B is 3 : 7

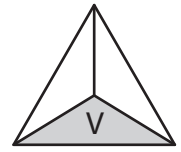
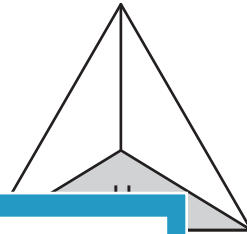


SA = ?



Surface area of figure

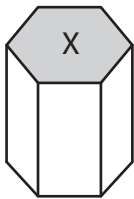
2) Scale factor of U to V is 8 : 0.3



SA = 9 yd²

Figure U = _____

3) Scale factor of Y to X



SA = 1,008.6 ft²

Surface area of figure

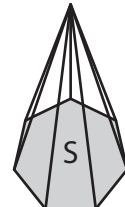
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to R is 1 : 6.7



SA = ?

Figure S = _____

5) The scale factor of two square yards, find the

larger polygon is 73.5

6) E and F are similar cones and the scale factor of E to F is 2 : 1. What will be the surface area of F, if E has a surface area of 656 square feet?

Name : _____

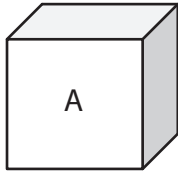
Answer key

Scale Factors - Surface Areas

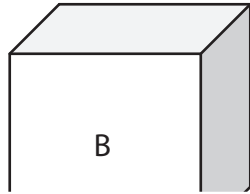
L1S3

Each pair of figures is similar. Find the missing surface area. (SA denotes Surface area)

1) Scale factor of A to B is 3 : 7

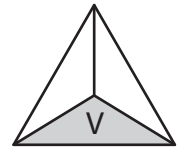
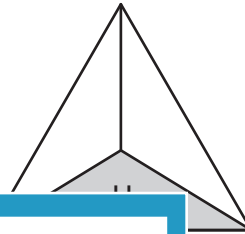


SA = ?



Surface area of figure

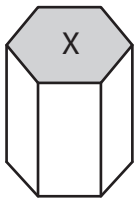
2) Scale factor of U to V is 8 : 0.3



SA = 9 yd²

Surface area of figure U = 6,400 yd²

3) Scale factor of Y to X



SA = 1,008.6 ft²

Surface area of figure

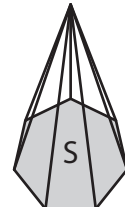
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Surface area of figure Y to R is 1 : 6.7



SA = ?

Surface area of figure S = 2 in²

5) The scale factor of two similar polygons is 1 : 11.5. If the smaller polygon has a surface area of 2 square yards, find the surface area of the larger polygon.

Surface area of the larger polygon is 73.5

121.5 square yards

6) E and F are similar cones and the scale factor of E to F is 2 : 1. What will be the surface area of F, if E has a surface area of 656 square feet?

164 square feet