

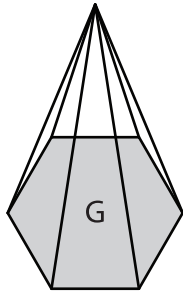
Name : \_\_\_\_\_

## Scale Factors - Surface Areas

L1S1

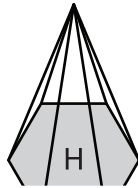
Each pair of figures is similar. Find the missing surface area. (SA denotes Surface area)

1) Scale factor of G to H is 5 : 1

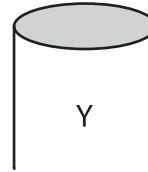


SA = ?

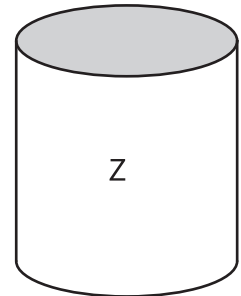
Surface area of figure



2) Scale factor of Z to Y is 7 : 1.2



Y



Z

SA = 98 in<sup>2</sup>

Surface area of figure Y = \_\_\_\_\_

3) Scale factor of L to M is 0.7 : 4.1



SA = ?

Surface area of figure

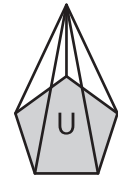
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Surface area of figure M = \_\_\_\_\_



SA = 5.88 ft<sup>2</sup>

Surface area of figure T = \_\_\_\_\_

5) S and T are similar hexagons. If the surface area of S is 144 square units and the surface area of T is 36 square units, what will be the surface area of S if the surface area of T is 144 square units?

Surface area of figure T = \_\_\_\_\_

6) The scale factor of two similar figures is 3.3 : 8. Find the surface area of the smaller figure, if the surface area of the larger figure is 6,400 square yards.