

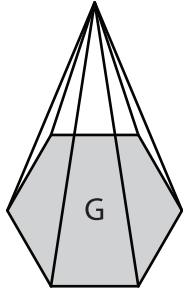
Name : _____

Scale Factors - Surface Areas

L1S1

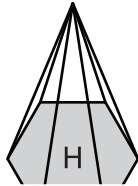
Each pair of figures is similar. Find the missing surface area. (SA denotes Surface area)

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



SA = ?

Surface area of figure



PREVIEW

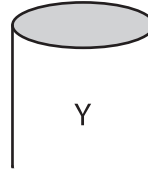
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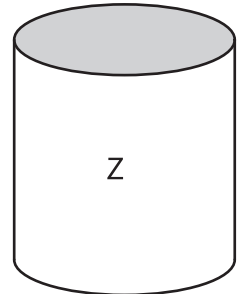
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2) Scale factor of Z to Y is 7 : 1.2



Y

Surface area of figure Y = _____



Z

SA = 98 in²

3) Scale factor of L to M is 1.5 : 2



SA = ?

Surface area of figure

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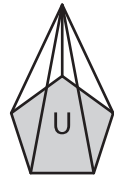
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Surface area of figure M = _____

4) Scale factor of T to U is 0.7 : 4.1



SA = 5.88 ft²

Surface area of figure T = _____

5) S and T are similar hexagons. If the surface area of S is 144 square feet and the surface area of T is 36 square feet, what will be the surface area of S if the surface area of T is 100 square feet?

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.
