

Name : _____

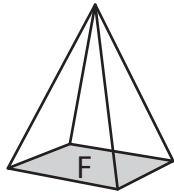
Scale Factors - Surface Areas

L1S2

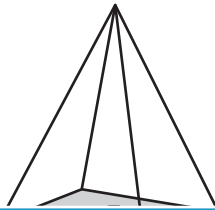
Each pair of figures is similar. Find the missing surface area. (SA denotes Surface area)

1) Scale factor of F to E is 1 : 8.1

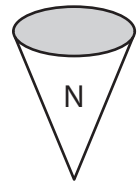
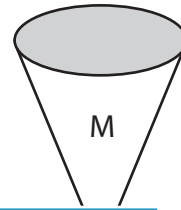
2) Scale factor of M to N is 9 : 1



SA = 20 yd²



Surface area of figure E = _____



SA = ?

2

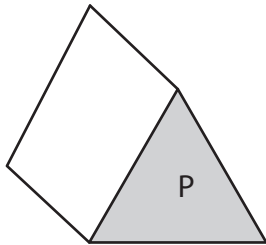
Surface area of figure N = _____

3) Scale factor of Q to P is 5 : 2

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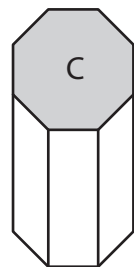
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Scale factor of figure C to P is 2 : 5



SA = ?

Surface area of figure P = _____



SA = 500 yd²

Surface area of figure C = _____

5) V and W are regular pyramids. If the surface area of V is 3,216 square feet, find the surface area of W.

Scale factor of V to W is 3 : 4. If the surface area of W is _____

6) The scale factor of two similar pyramids is 2.3 : 4.2. If the surface area of the smaller pyramid is 95.22 square inches, determine the surface area of the larger pyramid.

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Answer key

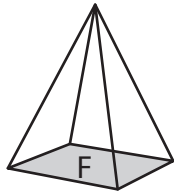
Scale Factors - Surface Areas

L1S2

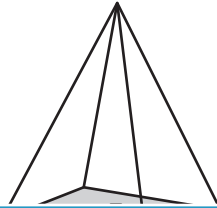
Each pair of figures is similar. Find the missing surface area. (SA denotes Surface area)

1) Scale factor of F to E is 1 : 8.1

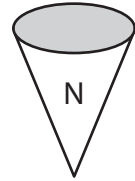
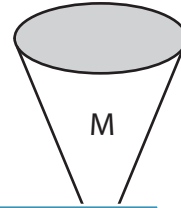
2) Scale factor of M to N is 9 : 1



SA = 20 yd²



Surface area of figure E = _____



SA = ?

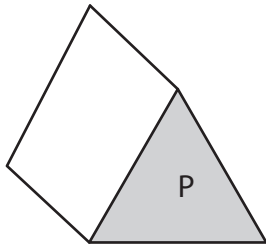
2

Surface area of figure N = 1 ft²

3) Scale factor of Q to P is 5 : 2

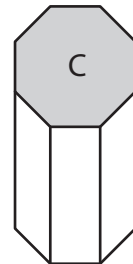
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Scale factor of figure C to P is 2 : 5



SA = ?

Surface area of figure Q = _____



SA = 500 yd²

Surface area of figure P = 80 yd²

5) V and W are regular polygons. If the surface area of V is 3,216 square feet, find the surface area of W.

Scale factor of figure W to V is 4 : 3. If the surface area of W is _____

50.25 square feet

6) The scale factor of two similar pyramids is 2.3 : 4.2. If the surface area of the smaller pyramid is 95.22 square inches, determine the surface area of the larger pyramid.

317.52 square inches