

Name : _____

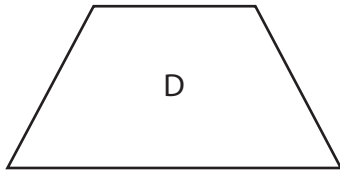
Scale Factors - Area

L1S2

Each pair of figures is similar. Find the missing area. (A denotes Area)

1) Scale factor of D to C is 9 : 2.5

2) Scale factor of Y to X is 7 : 1



A = ?

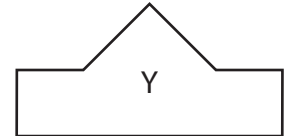
Area of figure D = _____



A = 4 in²



A = 11 vd²



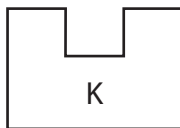
A = ?

= _____

3) Scale factor of K to

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to M is 1.1 : 4.6



A = ?

Area of figure K = _____

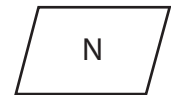
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A = ?



A = ?

= _____

5) E and F are similar figures. The area of figure F is 100 square units.

Find the area of figure E, if the scale factor of E to F is 2 : 5.

6) Determine the area of triangle P, if the scale factor of similar triangles P to Q is 5 : 3 and the area of triangle Q is 27 square feet.

Name : _____

Answer key

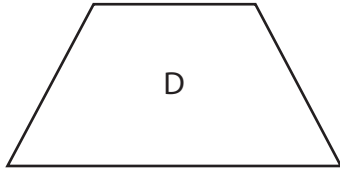
Scale Factors - Area

L1S2

Each pair of figures is similar. Find the missing area. (A denotes Area)

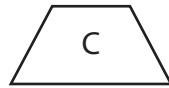
1) Scale factor of D to C is 9 : 2.5

2) Scale factor of Y to X is 7 : 1



A = ?

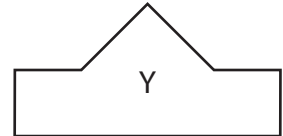
Area of figure D =



A = 4 in²



A = 11 vd²



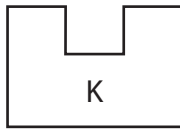
A = ?

= 539 yd²

3) Scale factor of K to

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to M is 1.1 : 4.6



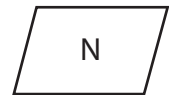
A = ?

Area of figure K =

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A = ?

= 12.1 in²

5) E and F are similar
area of figure F is 1

area of figure E, if the

108 square yards

6) Determine the area of triangle P, if the scale factor of similar triangles P to Q is 5 : 3 and the area of triangle Q is 27 square feet.

75 square feet