Name : _____

Multiple Choice

1) C and D are similar cones. The volume of D is 729 times larger than the volume of C. How much larger are the dimensions of D?

a) 27 times b) 81 times c) 18 times d) 9 times

2) The perimeters of similar rectangles are 300 yards and 120 yards. Determine the ratio of their areas.

a) 5 : 2 d) 4 : 25

3) Find the dilated coor ne origin and the scale factor is 7.

a) (7, 21) d) (–21, –7)

4) Find the scale factor io 64 : 0.125.

a) 4 : 0.5 d) 0.5 : 8

5) (16, 32) is the dilated center of dilation is at the origin.

a) 8 b) 2 c) 4 d) –2

6) If the lengths of a geometrical shape are multiplied by a scale factor of 3k, then the volume of the new shape will be multiplied by a scale factor of

a) $3k^3$ b) $3k$ c) $9k^2$ d) $27k^3$

Name : _____

Answer key

Multiple Choice

Sheet 2

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