Name : _____

Multiple Choice

Sheet 5

1) (4x, 14) is the dilated point of (6, 7). Determine the value of x, when the center of dilation is at the origin.

a) 12 b) 6 c) 2 d) 3

2) P and Q are similar prisms. The volume of Q is 27 times larger than the volume of P. How much larger are the dimensions of Q?

a) 27 times d) 81 times

3) The surface areas of s et. Determine the ratio of their volumes.

a) 8 : 27 d) 27 : 8

4) If the lengths of a ge , then the volume of the new shape will be m

a) $16a^2$ d) $4a^3$

5) Find the scale factor atio 8 : 7.

a) 49 : 64 b) 7 : 8 c) 64 : 49 d) 8 : 7

6) Find the dilated coordinates of (5, –7), when the center of dilation is at the origin and the scale factor is 5.

a) (–35, 25) b) (25, 35) c) (25, –35) d) (35, 25)