Name : _____

Multiple Choice

Sheet 3

1) Find the dilated coordinates of (–4, 1), when the center of dilation is at the origin and the scale factor is 6.

a) (–24, 6) b) (–4, –1) c) (–24, –6) d) (6, –24)

2) If the lengths of a geometrical shape are multiplied by a scale factor of k^2, then the perimeter of the new shape will be multiplied by a scale factor of

a) k^6 d) k^5

3) (10, y) is the dilated p ...ter of dilation is at the origin.

a) 5 d) 15

4) M and L are similar q ...n the perimeter of M. How much larger are

a) 2 times d) 64 times

5) The areas of similar r ...es. Determine the ratio of their perimeters.

a) 9 : 4 b) 16 : 81 c) 4 : 9 d) 81 : 16

6) Find the scale factor of two similar cylinders whose volumes are in the ratio 64 : 729.

a) 8 : 27 b) 9 : 4 c) 4 : 9 d) 27 : 8