

Multiple Choice

- 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 point of $(2, 5)$ when the center of dilation is at the origin.
- a) 5 d) 15
- 4) M and L are similar quadrilaterals. The perimeter of L is 16 units. How much larger are the perimeter of M.
- a) 2 times d) 64 times
- 5) The areas of similar rectangles are in the ratio 9 : 81. 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

