8th grade Chapter 6
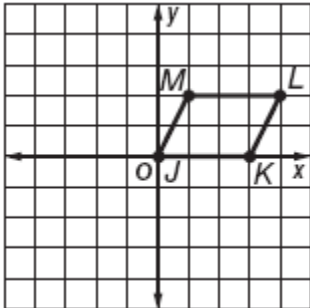
Indicate the answer choice that best completes the statement or answers the question.

Parallelogram *JKLM* has vertices as shown.

1. If the figure is translated 4 units left, what are the coordinates of J'?

    a. (0, –4)
    b. (0, 4)
    c. (–4, 0)
    d. (4, 0)

2. If the figure is translated 2 units left and 4 units down, what are the coordinates of L'?

    a. (–2, 2)
    b. (–2, –2)
    c. (2, 2)
    d. (2, –2)

3. If the figure is rotated 90° clockwise about the origin, what are the coordinates of M'?

    a. (–1, 2)
    b. (2, –1)
    c. (–2, 1)
    d. (–2, –1)

4. If the figure is reflected over the *x*-axis, what are the coordinates of K'?

    a. (0, 3)
    b. (0, –3)
    c. (3, 0)
    d. (–3, 0)

5. If the figure is dilated using a scale factor of $\frac{1}{2}$, what are the coordinates of L'?

    a. (2, 1)

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    b. (2, –1)

    c. (8, 4)

    d. (–8, 4)

6. If the figure is reflected over the *y*-axis, what are the coordinates of *M'*?

    a. (1, -2)

    b. (-1, -2)

    c. (-1, 2)

    d. (2, -1)