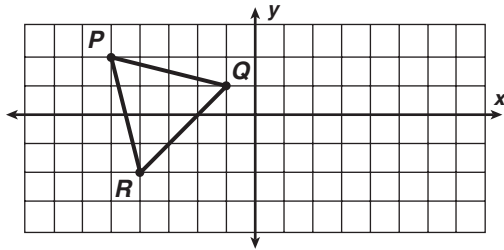


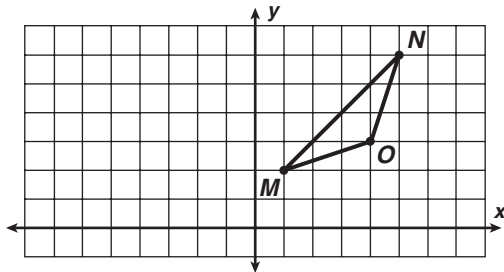
**GRADE 10** **Focus on Sunshine State Standards: Benchmark Tests**  
**MA.912.G.2.6 Benchmark Pre-Test (Multiple Choice)**

1.  $\triangle PQR$  is translated right 3 and up 2.



What are the coordinates of vertex  $Q$  after the translation?

- A. (4, 3)
  - B. (1, 4)
  - C. (3, 4)
  - D. (2, 3)
2.  $\triangle MNO$  is reflected over the  $y$ -axis.



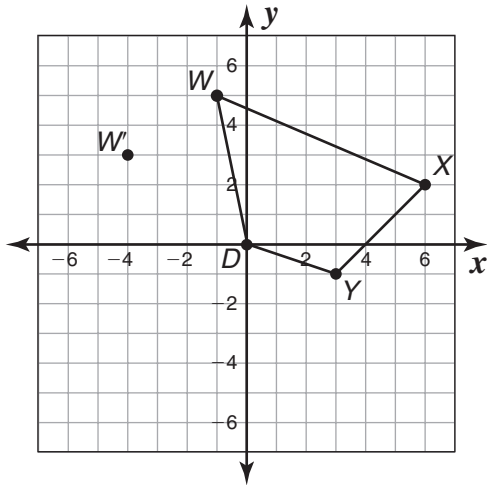
What are the coordinates of vertex  $N$  after the reflection?

- F. (-5, 6)
- G. (-5, -6)
- H. (5, -6)
- I. (6, -5)

- 3. Three vertices of rectangle  $ABCD$  are  $A(5, 2)$ ,  $B(5, -3)$ , and  $C(-2, -3)$ . What are the coordinates of  $D$ ?
  - A. (-2, -5)
  - B. (-2, 2)
  - C. (5, -2)
  - D. (-5, 2)
- 4. The coordinates of the vertices of parallelogram  $PQRS$  are  $P(0, 0)$ ,  $Q(6, 0)$ ,  $R(8, 3)$ , and  $S(x, 3)$ . What is the numerical value of  $x$ ?
  - F. 0
  - G. 2
  - H. 6
  - I. 8
- 5. Which quadrilateral is formed by connecting the points (2, 1), (6, 2), (5, 6), and (1, 5)?
  - A. rectangle
  - B. rhombus
  - C. square
  - D. trapezoid

**GRADE 10 Focus on Sunshine State Standards: Benchmark Tests**  
**10 MA.912.G.2.6 Benchmark Pre-Test (Multiple Choice)**

6. Trapezoid  $WXYZ$  is translated so that  $W$  is mapped to  $W'$ .



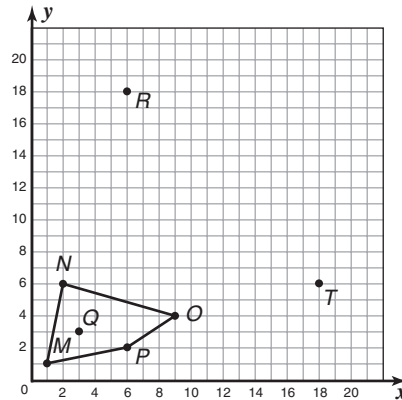
Which coordinate pair best represents  $Z'$ ?

- F. (0, 0)
  - G. (-3, 0)
  - H. (0, -2)
  - I. (-3, -2)
7. The vertices of  $\triangle ABC$  are  $A(1, 3)$ ,  $B(5, 3)$ , and  $C(5, 6)$ . Which of the following are NOT the vertices of a triangle that is congruent to  $\triangle ABC$ ?
- A. (3, 3), (6, 3), (6, 6)
  - B. (1, 4), (5, 1), (5, 4)
  - C. (2, 1), (2, 5), (5, 1)
  - D. (3, 1), (3, 5), (6, 5)

8. Five vertices of regular hexagon  $JKLMNO$  are  $J(0, 3)$ ,  $K(5, 3)$ ,  $L(9, 0)$ ,  $M(5, -3)$  and  $N(0, -3)$ . Which coordinate pair completes the regular hexagon?

- F. (0, -8)
- G. (-3, 0)
- H. (-4, 0)
- I. (-5, -3)

9. Figure  $MNOP$  is a quadrilateral.



At what coordinates should vertex  $S$  be placed to create a quadrilateral  $QRST$  that is similar to  $MNOP$ ?

- A. (9, 12)
- B. (27, 4)
- C. (27, 12)
- D. (27, 27)