MSTAR PRACTICE WORKSHEET

Lesson 7-8: Ordered Pairs in All Four Quadrants

Grade 6 Mathematics · Standard 6.NOS.7

Name: _____ Date: _____

These are MSTAR-style questions written for this curriculum to rehearse the format. They are not official Maryland assessment items. MSTAR — Maryland's new state test, first given in spring 2027 — uses the same kinds of questions you see here: selected response, select-all, two-part evidence questions, and written responses.

Part A — Skills Check

Warm up with the lesson's core skills — one best answer each.

Question 1 SELECTED RESPONSE · 1 POINT

In which quadrant is the point (-4, 5)?

A. Quadrant I

B. Quadrant III

C. Quadrant II

D. Quadrant IV

Question 2 SELECTED RESPONSE · 1 POINT

A point has a positive x-coordinate and a negative y-coordinate. Which quadrant is it in?

A. Quadrant I

B. Quadrant II

C. Quadrant IV

D. Quadrant III

Question 3 SELECTED RESPONSE · 1 POINT

Which point is located on the x-axis?

A. (-4, -4)

B. (0, 4)

C. (4, 0)

D. (4, 4)

Question 4 SELECTED RESPONSE · 1 POINT

Point A is at (-5, 3). If you move 8 units to the right, what are the new coordinates?

A (-13, 3)

B (-5, 11)

C (-5, -5)

D (3, 3)

Question 5 SELECTED RESPONSE · 1 POINT

In which quadrant is the point (-3, 5)?

A Quadrant I

B Quadrant III

C Quadrant IV

D Quadrant II

Question 6 SELECTED RESPONSE · 1 POINT

What are the coordinates of a point 4 units right and 2 units down from the origin?

A (-4, 2)

B (-2, 4)

C (2, -4)

D (4, -2)

Part B — Test-Format Questions

These match the state test's formats: two-part questions, select-all, and written responses.

Question 7 TWO-PART QUESTION

Part A

In which quadrant does the point (−4, 3) lie?

Fill in the bubble next to the one best answer.

- (A) Quadrant II
- (B) Quadrant I
- (C) Quadrant III
- (D) Quadrant IV

Part B

Answer Part A before Part B — Part B asks about your reasoning.

What sign pattern identifies Quadrant IV?

- (A) (−, −)
- (B) (−, +)
- (C) (+, −)
- (D) (+, +)

Question 8 SELECT ALL THAT APPLY

Select ALL statements that are true about the four quadrants:

Mark the box next to EVERY answer that is true. More than one is correct.

- [A] Quadrant I contains points with both coordinates positive.
- [B] Quadrant III contains points with both coordinates negative.
- [C] A point on an axis belongs to no quadrant.
- [D] The quadrants are numbered clockwise starting from the upper right.
- [E] Quadrant II contains points of the form (−, +).

Part C — Show Your Thinking

Answer in writing, the way the state test's constructed responses work.

Question 9 WRITTEN RESPONSE · 2 POINTS

A point starts in Quadrant I at (4, 6). Describe a move that puts it in Quadrant III. What must happen to both coordinates? Can you give the exact new coordinates after your move?

Write your answer in complete sentences. Show or explain your mathematical thinking.

When you finish, check your reasoning with your teacher or family. Your teacher has the scoring guide for the written responses.