MSTAR PRACTICE WORKSHEET

Lesson 7-4: Compare and Order Integers and Rational Numbers

Grade 6 Mathematics · Standard 6.NOS.8

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

Which statement is TRUE?

(A) -5 < -2

(B) -4 > 0

(C) -3 > -1

(D) -1 < -6

Question 2 SELECTED RESPONSE · 1 POINT

Which integer is the LEAST: -3, 5, -8, 2, 0?

(A) -8

(B) -3

(C) 0

(D) 5

Question 3 SELECTED RESPONSE · 1 POINT

What is |–8|?

(A) 0

(B) 8

(C) –8

(D) –16

Question 4 SELECTED RESPONSE · 1 POINT

Three cities have temperatures of -12°F, -5°F, and 3°F. Which city is warmest?

(A) -5°F

(B) -12°F

(C) 3°F

(D) They are equal

Question 5 SELECTED RESPONSE · 1 POINT

Four spots: -3 m, 2 m, -7 m, 0 m. Order them from least to greatest.

(A) -7, -3, 0, 2

(B) -7, -3, 2, 0

(C) -3, -7, 0, 2

(D) 2, 0, -3, -7

Question 6 SELECTED RESPONSE · 1 POINT

Three buried chests sit at -9 m, -4 m, and -15 m below sea level. Which chest is at the GREATEST elevation (closest to the surface)?

(A) -9 m

(B) -15 m

(C) They are equal

(D) -4 m

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

Order these numbers from LEAST to GREATEST: −2, 1.5, −4.5, 0, 3.

Fill in the bubble next to the one best answer.

(A) −2, −4.5, 0, 1.5, 3

(B) 3, 1.5, 0, −2, −4.5

(C) −4.5, −2, 0, 1.5, 3

(D) −4.5, −2, 0, 3, 1.5

Part B

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

Which statement correctly compares −4.5 and −2?

(A) −4.5 > −2, because 4.5 > 2.

(B) −4.5 < −2, because −4.5 lies further left on the number line.

(C) They are equal in value.

(D) −4.5 > −2, because it is further from zero.

Question 8 SELECT ALL THAT APPLY

Select ALL comparisons that are TRUE:

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

[A] −7 < −2

[B] 0 > −1

[C] −0.5 > −1.5

[D] −10 > −3

[E] 2.5 > −9

Part C — Show Your Thinking

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

Question 9 WRITTEN RESPONSE · 2 POINTS

A student says: 'Negative numbers are always less than positive numbers, so -100 is less than 1.' Is this correct? Now the student says: '-100 is less than -1 because 100 is greater than 1.' Is THIS correct? Explain the difference.

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.