MSTAR PRACTICE WORKSHEET

Lesson 2-12: Multiply Decimals

Grade 6 Mathematics · Standard 6.NOS.3

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

What is 3.4 × 2.6?

(A) 0.884

(B) 8.48

(C) 8.84

(D) 88.4

Question 2 SELECTED RESPONSE · 1 POINT

What is 0.7 × 1.5?

(A) 0.105

(B) 1.05

(C) 1.50

(D) 10.5

Question 3 SELECTED RESPONSE · 1 POINT

What is 5.3 × 4?

(A) 2.12

(B) 20.12

(C) 21.2

(D) 212

Question 4 SELECTED RESPONSE · 1 POINT

Which estimate is closest to 4.8 × 3.2?

(A) 4 × 3 = 12

(B) 5 × 3 = 15

(C) 5 × 4 = 20

(D) 48 × 32 = 1,536

Question 5 SELECTED RESPONSE · 1 POINT

A car travels 55.5 miles per hour for 2.4 hours. How far does it go?

(A) 13.32 miles

(B) 57.9 miles

(C) 133.2 miles

(D) 1,332 miles

Question 6 SELECTED RESPONSE · 1 POINT

A customer orders 3 taco baskets at $4.25 each. What is the total before tax?

(A) $1.275

(B) $12.15

(C) $12.75

(D) $127.50

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

Find 2.4 × 0.5.

Fill in the bubble next to the one best answer.

(A) 0.12

(B) 1.2

(C) 12

(D) 120

Part B

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

How is the number of decimal places in the product determined?

(A) Use the number of decimal places in the larger factor.

(B) Multiply the number of decimal places in the two factors.

(C) Add the number of decimal places in the two factors.

(D) The product always has one decimal place.

Question 8 SELECT ALL THAT APPLY

Select ALL statements that are true about multiplying decimals:

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

[A] Multiply the factors as if they were whole numbers first.

[B] The total number of decimal places in the factors gives the number in the product.

[C] Multiplying by a number less than 1 gives a product smaller than the other factor.

[D] The decimal points must be lined up before multiplying.

[E] Estimating first is a good way to check the placement of the decimal point.

Part C — Show Your Thinking

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

Question 9 WRITTEN RESPONSE · 2 POINTS

A driver buys 9.5 gallons of gas at $3.40 per gallon. Show how to find the total cost. Use estimation to check if your answer is reasonable.

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.