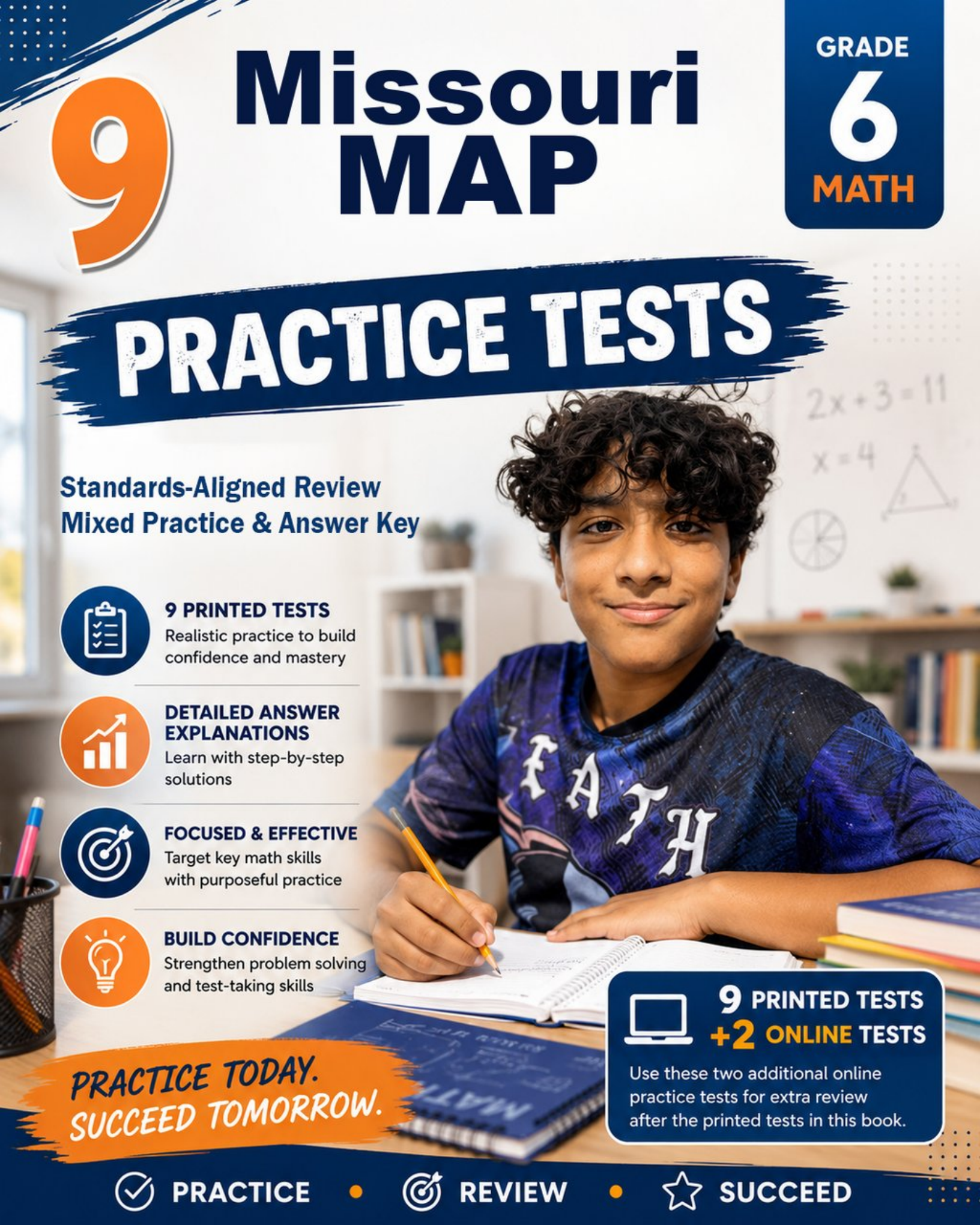
9 Missouri MAP

GRADE 6 MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



9 PRINTED TESTS
Realistic practice to build confidence and mastery

DETAILED ANSWER EXPLANATIONS
Learn with step-by-step solutions

FOCUSED & EFFECTIVE
Target key math skills with purposeful practice

BUILD CONFIDENCE
Strengthen problem solving and test-taking skills

9 PRINTED TESTS +2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.

PRACTICE TODAY. SUCCEED TOMORROW.

PRACTICE • REVIEW • SUCCEED

9 Missouri MAP Grade 6 Math Practice Tests

Standards-Aligned Show-Me Math Proof for Missouri Assessment Program

Nine complete 40-question Grade 6 practice rounds for MAP, built for show-me math proof with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari

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Welcome, Missouri Math Explorer!

Nine focused rounds using show-me math proof

This book gives you nine full Grade 6 practice tests for MAP. Each round uses river crossings, city blocks, and proof-ready thinking as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Missouri Practice Promise

Show the reason, not just the answer: model, calculate, and confirm with the question.

How to Use This Book

A nine-session routine for show-me math proof

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Missouri review rhythm: Use each test to gather evidence about strengths and the next skill to repair.

What Is Inside?

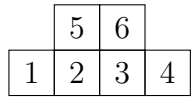
Nine MAP tests, 360 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–9	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Show-me math proof means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.

Table of Contents

1) In the net of a cube, which arrangement would result in faces 1 and 2 being on opposite sides of the cube?



☐ A. 1 and 2
☐ B. 3 and 6
☐ C. 2 and 5
☐ D. 1 and 4

2) If $\frac{3}{4}$ pound of coffee costs \$12, what is the cost per pound?

☐ A. \$9
☐ B. \$12
☐ C. \$16
☐ D. \$18

3) What is the prime factorization of 84?

☐ A. $2^2 \times 21$
☐ B. $2^2 \times 3 \times 7$
☐ C. 3×28
☐ D. 4×21

4) Which expansion is correct for $9(5 + 2)$?

☐ A. $45 + 18$
☐ B. $45 + 2$
☐ C. $9 + 5 + 9 + 2$
☐ D. 90

5) A teen has \$200 and plans to allocate 50% to savings, 30% to entertainment, and the remainder to miscellaneous. How much is allocated to miscellaneous?

☐ A. \$40
☐ B. \$30
☐ C. \$20
☐ D. \$50

6) Two maps have different scales. Map A uses 1 cm = 5 km and Map B uses 1 cm = 10 km. If the same road measures 4 cm on both maps, what is the actual road length according to each map?

☐ A. Map A: 20 km; Map B: 20 km
☐ B. Map A: 10 km; Map B: 20 km
☐ C. Map A: 20 km; Map B: 40 km
☐ D. Map A: 40 km; Map B: 20 km

7) The highest point in a state has an elevation of 6000 feet. The lowest point has an elevation of −500 feet. How many feet higher is the highest point than the lowest point?

☐ A. 5500 feet
☐ B. 6500 feet
☐ C. 5000 feet
☐ D. 6000 feet

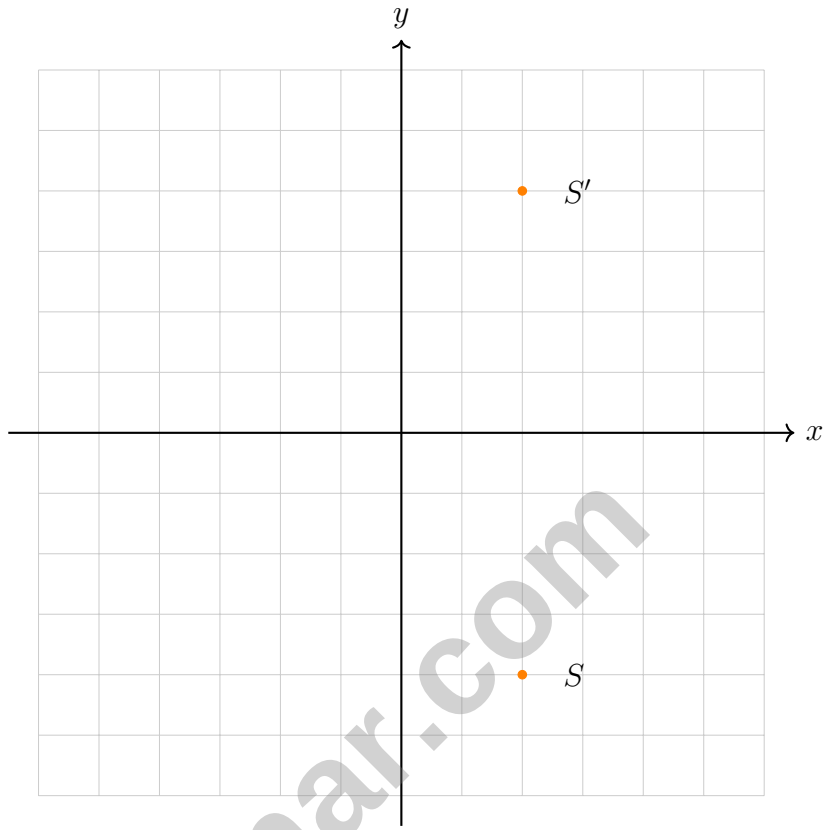
8)

On this number line, mark which pairs have the same absolute value.

☐ A. −10 and 10; −6 and 6; −2 and 2
☐ B. Only −2 and 2
☐ C. Only −6 and 6
☐ D. Only −10 and 10

9) On a number line, what is the position of the point halfway between −2 and 2?

☐ A. −2
☐ B. 0
☐ C. 1
☐ D. 2



10)

Point S is reflected to create point S'. What is the relationship between the x-coordinates of S and S'?

☐ A. They are opposites
☐ B. One is zero
☐ C. They are swapped
☐ D. They are equal

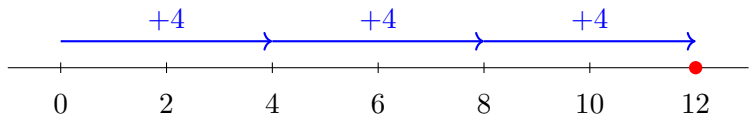
11) A student ordered $-4.2,\ -4.1,\ 0.3$ as: $0.3,\ -4.1,\ -4.2$. What error did the student make?

☐ A. Forgot that negatives are less than positives
☐ B. Thought $-4.2 > -4.1$
☐ C. Confused decimal places
☐ D. Used correct order

1) Evaluate: $\frac{4}{7} \div \frac{2}{7}$

☐ A. $\frac{8}{49}$
☐ B. 2
☐ C. $\frac{6}{7}$
☐ D. $\frac{2}{14}$

2)



The number line shows three equal jumps from 0 that land on 12. Which multiplication does this represent?

☐ A. 3×4
☐ B. 4×4
☐ C. 3×3
☐ D. $4 + 3$

3) Solve for x: $x - 6 = 10$

☐ A. $x = 4$
☐ B. $x = 16$
☐ C. $x = 60$
☐ D. $x = 0.6$

4) A store accepts returns for at most 30 days after purchase. Which inequality correctly represents days when returns are allowed?

☐ A. $d > 30$
☐ B. $d \geq 30$
☐ C. $d \leq 30$
☐ D. $d < 30$

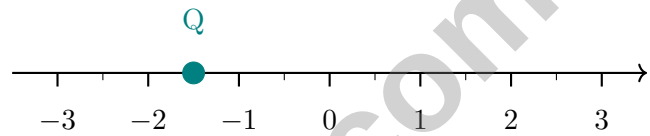
5) Which pair of numbers are opposites?

☐ A. -12 and 21
☐ B. -9 and -9
☐ C. 6 and -6
☐ D. 0 and -0

6) A city is at an elevation of 2050 feet above sea level. Its opposite elevation would be:

☐ A. -2050 feet
☐ B. $|2050|$ feet
☐ C. 2050 feet
☐ D. 4100 feet

7) The number line below has tick marks at halves. Which fraction is located at point Q?



☐ A. -2
☐ B. $-\frac{1}{2}$
☐ C. -1
☐ D. $-1\frac{1}{2}$

8)

Account	Balance ($)
Savings	250
Checking	−15
Loan	−100

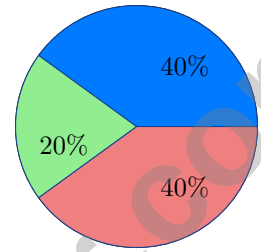
List the accounts from least money to most money.

☐ A. Savings, Checking, Loan
☐ B. Loan, Checking, Savings
☐ C. Checking, Loan, Savings
☐ D. Loan, Savings, Checking

1) A data analyst looks at two side-by-side box plots. Plot A has $Q_1 = 10$, median $= 20$, $Q_3 = 30$. Plot B has $Q_1 = 15$, median $= 20$, $Q_3 = 25$. Which conclusion is INCORRECT?

☐ A. Both datasets have the same median.
☐ B. Dataset A has a larger IQR than Dataset B.
☐ C. Dataset B's lower whisker is longer than Dataset A's.
☐ D. Both datasets have the same spread.

2)



A circle graph shows the results of a survey with 300 students. One section is 20%. How many students are in this section?

☐ A. 20
☐ B. 60
☐ C. 80
☐ D. 100

3) Which of the following describes the CENTER of a data set?

☐ A. Range
☐ B. Median
☐ C. Interquartile range
☐ D. Maximum value

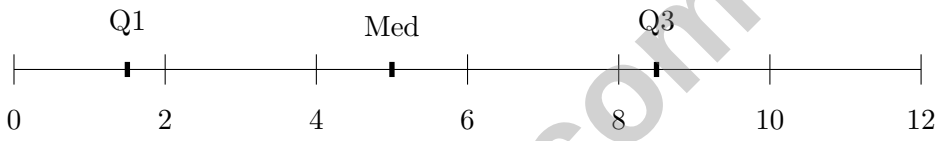
4) The mean of three numbers is 15. If two of the numbers are 12 and 18, what is the third?

☐ A. 12
☐ B. 24
☐ C. 18
☐ D. 15

5) A back-to-back stem-and-leaf plot compares two data sets with a shared stem of 6. Class A (left) shows leaf 9. What value does this leaf represent?

☐ A. 96
☐ B. 59
☐ C. 69
☐ D. Cannot be determined

6)



A box plot shows Q1 = 1.5, median = 5, and Q3 = 8.5. What is the IQR?

☐ A. 5
☐ B. 6.5
☐ C. 7
☐ D. 3.5

7) Grade distribution histogram: 60–69 (5 students), 70–79 (8 students), 80–89 (10 students), 90–100 (7 students). In which interval is the median grade?

☐ A. 60˘69
☐ B. 70˘79
☐ C. 80˘89
☐ D. 90˘100

Missouri MAP Practice Test Answer Keys

How to use this Missouri MAP answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to show-me math proof
3. rework the problem before reading the full explanation, using this reminder: Show the reason, not just the answer: model, calculate, and confirm with the question.

A calm Missouri correction routine turns every missed item into useful practice. Use each test to gather evidence about strengths and the next skill to repair.

Missouri Practice Test Answers and Explanations

Review the nine printed MAP tests with evidence-minded, steady, and ready to prove more habits.

Practice Test 1 Answers and Explanations

1) **Choice D is correct.** 6.GM.A.1 In this net arrangement (1-2-3-4 in a row, 5 above 2, 6 above 3), faces 1 and 4 are on opposite ends of the center line and will be opposite when the net is folded into a cube.
2) **Choice C is correct.** 6.RP.A.2 Unit price: $12 \div \frac{3}{4} = 12 \times \frac{4}{3} = 16$ dollars per pound.
3) **Choice B is correct.** 6.NS.B.4 $84 = 4 \times 21 = (2 \times 2) \times (3 \times 7) = 2^2 \times 3 \times 7$. Options A, C, and D contain composite numbers.
4) **Choice A is correct.** 6.NS.B.4 $9(5+2) = 9 \cdot 5 + 9 \cdot 2 = 45 + 18 = 63$. Choice A shows the correct expanded form.
5) **Choice A is correct.** 6.EEI.B.6 Miscellaneous: $100\% - 50\% - 30\% = 20\%$ of $\$200 = 0.20 \times 200 = \$40$.
6) **Choice C is correct.** 6.RP.A.3 Map A: $4 \times 5 = 20$ km. Map B: $4 \times 10 = 40$ km.
7) **Choice B is correct.** 6.NS.C.5 The difference in elevation is $6000 - (-500) = 6000 + 500 = 6500$ feet.
8) **Choice A is correct.** 6.NS.C.7 Opposite numbers all have equal absolute values. $|-10| = |10| = 10$, $|-6| = |6| = 6$, $|-2| = |2| = 2$.
9) **Choice B is correct.** 6.NS.C.7 The midpoint between -2 and 2 is found by taking the average: $\frac{-2+2}{2} = 0$.
10) **Choice D is correct.** 6.GM.A.3 Point S is at $(2, -4)$ and S' is at $(2, 4)$. Both have $x = 2$. Reflection across the x-axis keeps the x-coordinate the same.
11) **Choice A is correct.** 6.NS.C.7 The correct order is $-4.2 < -4.1 < 0.3$. Negatives are always less than positive numbers.
12) **Choice B is correct.** 6.GM.A.3 Same y-coordinate (3): $|7 - 2| = 5$ units.
13) **Choice C is correct.** 6.EEI.A.2 Substitute $x = 3$: $6(3) + 2 = 18 + 2 = 20$.
14) **The correct answer is** 27. 6.DSP.A.3 The ratio is 6 : 9 or 2 : 3. For 18 pounds: $18 \div 2 \times 3 = 27$ dollars.
15) **Choice B is correct.** 6.EEI.B.4 "4 years older" means add 4 to Joel's age: $y + 4$.
16) **Choice D is correct.** 6.GM.A.1 $77 = \frac{1}{2} \times 14 \times h \Rightarrow h = 11$ ft.
17) **Choice C is correct.** 6.GM.A.1 Area $= 7 \times 3 = 21$ ft^2.
18) **Choice A is correct.** 6.GM.A.3 Length $= 6 - 1 = 5$ units and width $= 6 - 1 = 5$ units. Since all sides are equal, it is a square.
19) **Choice A is correct.** 6.GM.A.1 Rectangle: base $11 - 1 = 10$, height $7 - 2 = 5$, area $= 50$ square units. Triangle: base $13 - 11 = 2$, height $7 - 2 = 5$, area $= \frac{1}{2} \times 2 \times 5 = 5$ square units. Total $= 50 + 5 = 55$ square units.
20) **Choice B is correct.** 6.DSP.A.2 The population is the entire set of cities from which the scientist wants to draw conclusions. The 100 cities represent a sample from the global population of cities.
21) **The correct answer is Both scenarios require rounding up because partial containers/buses must be counted as whole units..** 6.NS.B.2 A is correct: $5{,}432 \div 32 = 169$ remainder 24, so 170 crates are needed. C is correct: $6{,}250 \div 48 = 130$ remainder 10, so 131 buses are needed. B, D, and E distribute items equally with no rounding needed (they divide evenly or we report the quotient with remainder).
22) **Choice C is correct.** 6.DSP.B.4 Total frequency: $1 + 4 + 6 + 3 + 1 = 15$. The median is the 8th value. Counting: $1 + 4 = 5$ (at 15 msg); continuing to 20 msg gives $5 + 6 = 11$. The 8th value is in the 20 message group.
23) **Choice D is correct.** 6.EEI.A.3 "The quotient of 15 and j" is $\frac{15}{j}$. "Twice" that quotient means multiply by 2: $2 \cdot \frac{15}{j}$.
24) **Choice D is correct.** 6.EEI.B.4 Two blocks of 8 grams balance x. So $x = 8 + 8 = 16$. Also written as $x = 2 \times 8 = 16$.
25) **The correct answer is** 440. 6.GM.A.3 The unit rate is $\frac{165 \text{ miles}}{3 \text{ hours}} = 55$ miles per hour. For 8 hours: $8 \times 55 = 440$ miles.
26) **Choice C is correct.** 6.EEI.B.5 $x \leq -1$ means x equals -1 or is less than -1. A closed circle (filled) includes -1, and the arrow points left (toward smaller values).

Author's Note

Math Explorer's Note

Hi, Brave Explorer!

◇ What a trip! You explored 9 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

⋆ **Smart explorers know:** every trip teaches something. Through 9 tests, you learned a lot. You are a stronger math explorer now. ⋆

Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

Explorer tip: on test day, use the tools you packed. You have the skills. You are ready!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Trail Guide

PRACTICE MORE.
ACHIEVE MORE.

This Grade 6 Math Practice Tests book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on any test.

With 9 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

Perfect for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

- Classroom Practice
- Homework & Review
- Independent Learning
- Test Preparation
- Skill Reinforcement
- Building Confidence

PRACTICE TODAY. SUCCEED TOMORROW.

WHAT STUDENTS WILL GAIN

Stronger Math Skills
Build a solid foundation through targeted practice and review.

Better Problem Solving
Develop logical thinking and effective solution strategies.

Deeper Understanding
Reinforce key math concepts aligned with standards.

Test Confidence
Get familiar with test formats and improve accuracy.

Achieve Success
Build confidence and perform your best on test day.

TOPICS COVERED

- Ratios & Rates
- The Number System
- Expressions & Equations
- Geometry
- Fractions & Decimals
- Percents
- Statistics & Probability
- Data Analysis
- Measurement & Conversions
- And More!

2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.

9 PRINTED PRACTICE TESTS

2 ONLINE PRACTICE TESTS

DETAILED ANSWER EXPLANATIONS