

9

Wyoming WY TOPP

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



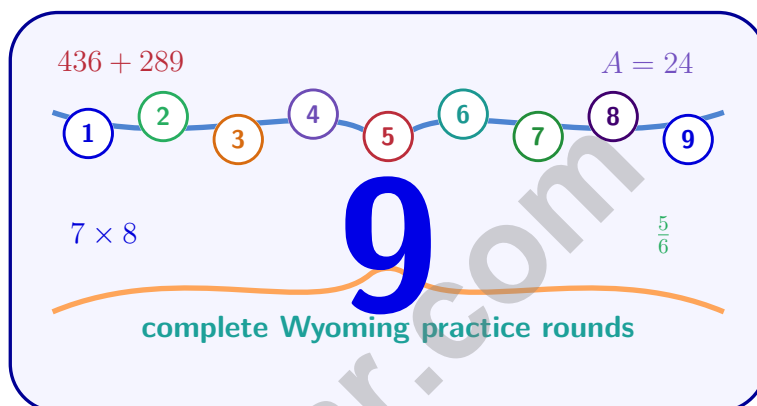
REVIEW



SUCCEED

9 Wyoming WY-TOPP Grade 6 Math Practice Tests

Standards-Aligned Wide-Range Math Stamina for Wyoming Test of Proficiency and Progress



Nine complete 40-question Grade 6 practice rounds for WY-TOPP, built for wide-range math stamina 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, Wyoming Math Explorer!

Nine focused rounds using wide-range math stamina

This book gives you nine full Grade 6 practice tests for WY-TOPP. Each round uses open ranges, mountain passes, and patient calculation as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Wyoming Practice Promise

Give each problem room: read the facts, choose a route, and check the answer.

Read

Plan

Check

How to Use This Book

A nine-session routine for wide-range math stamina

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

Wyoming review rhythm: Complete one round, note the hardest terrain, and prepare that skill for the next test.



What Is Inside?

Nine WY-TOPP 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. Wide-range math stamina means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



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For more practice
& answers

Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	29
★ Practice Test 3	_____	44
★ Practice Test 4	_____	59
★ Practice Test 5	_____	73
★ Practice Test 6	_____	90
★ Practice Test 7	_____	107
★ Practice Test 8	_____	125
★ Practice Test 9	_____	139
Practice Test Answer Keys	_____	153
Practice Test Answers and Explanations	_____	159

- 1) A science teacher is comparing two chemical solutions. Solution A has a mass of 50 grams and Solution B has a mass of 75 grams. The volumes are 10 mL and 15 mL respectively. Which solution shows a proportional mass-to-volume relationship?

Solution	Mass (g)	Volume (mL)
A	50	10
B	75	15

- A. Only Solution A has a ratio of 5 : 1 C. Both have the same proportional ratio of 5 : 1
- B. Only Solution B has a ratio of 5 : 1 D. Neither; the ratios are different
- 2) Two events are scheduled at a recreation center. Event A happens every 15 minutes and Event B happens every 25 minutes. If both start at noon, at what time will they start together again?
- A. 12 : 15 PM C. 1 : 15 PM
- B. 12 : 25 PM D. 1 : 45 PM
- 3) Factor $20 + 16$ using the GCF.
- A. $2(10 + 8)$ C. $5(4 + 3.2)$
- B. $4(5 + 4)$ D. $8(2.5 + 2)$
- 4) On a number line, which pair of numbers are NOT equidistant from zero?
- A. -2.5 and 2.5 C. -1.2 and 1.3
- B. $-\frac{3}{4}$ and $\frac{3}{4}$ D. -0.8 and 0.8



5) A point is on the y -axis between Quadrants I and II. Which of the following could be its coordinates?

A. $(0, -3)$

C. $(4, 0)$

B. $(0, 4)$

D. $(-4, 0)$

6) A container holds 96 fluid ounces of liquid. How many cups does the container hold?

7) A blueprint has a scale of 1 inch = 2 feet. A wall in the blueprint is 7 inches long. How long is the actual wall?

A. 7 feet

C. 14 feet

B. 9 feet

D. 28 feet

8) A recipe makes 8 servings and calls for $\frac{1}{2}$ cup of milk. How much milk is needed per serving?

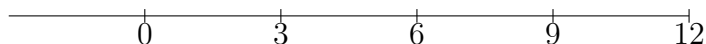
A. $\frac{1}{4}$ cup

C. $\frac{1}{8}$ cup

B. $\frac{1}{16}$ cup

D. $\frac{4}{5}$ cup

9) A runner is doing interval training. Starting at position 0, the runner sprints forward 15 yards, then backward 8 yards, then forward 3 yards. What is the runner's final position relative to the start?



A. 10 yards forward

C. 8 yards forward

B. 20 yards backward

D. 26 yards forward



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- 10) Sofia has assets totaling \$1500 (savings, laptop, jewelry). She owes \$200 in debt. What is her net worth?

- 11) Divide 9,240 by 120. Express the quotient.

- 12) Which list shows the absolute values in order from least to greatest?

- A. $|-2|, |-5|, |6|, |-9|$ C. $|-9|, |6|, |-5|, |-2|$
 B. $|6|, |-5|, |-2|, |-9|$ D. $|-9|, |-5|, |-2|, |6|$

- 13) On a number line, start at -9 and move 15 units to the right. Where do you end up?

- A. -24 C. 6
 B. -6 D. 24

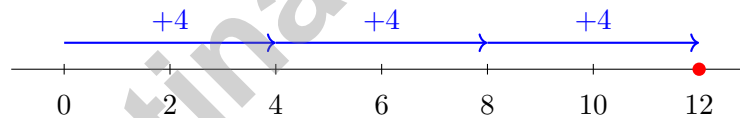
- 14) Factor out the common factor from $12x + 8$. Which expression is equivalent?

- A. $4(3x + 2)$ C. $6(2x + 1)$
 B. $2(6x + 4)$ D. $3(4x + 3)$



- 1) A number line shows tick marks at tenths from -2 to 1 . Point G is marked at -1.4 . What is the distance from point G to 0?
- A. 0.6 C. 1.6
 B. 2.4 D. 1.4
- 2) A temperature of $-8^{\circ}F$ is compared to $-3^{\circ}F$. Which statement is correct?
- A. $-8^{\circ}F$ is warmer C. $-8^{\circ}F$ is colder
 B. $-3^{\circ}F$ is colder D. They are the same temperature
- 3) On a city map, a fire station is at $(4, 6)$ and a hospital is at $(12, 6)$. The map scale is 1 unit = 250 meters. What is the distance between them in meters?
- A. 1500 m C. 2000 m
 B. 1750 m D. 2250 m

4)



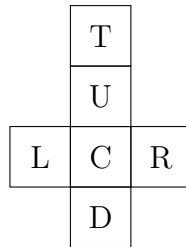
The number line shows three equal jumps from 0 that land on 12. Which multiplication does this represent?

- A. 3×4 C. 3×3
 B. 4×4 D. $4 + 3$

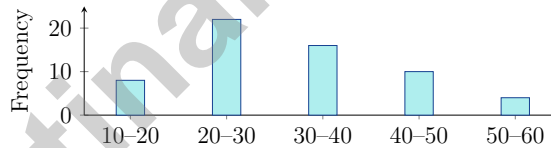


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- 1) A cube net is shown in a cross pattern. The center square is labeled C , the four adjacent squares are labeled L (left), R (right), U (up), D (down). If there is one more square attached above U , which square is opposite to L ?



- A. C
 C. D
 B. U
 D. R
- 2) Which histogram correctly represents a data set where the frequency is highest for the 20–30 range and lowest for the 50–60 range?

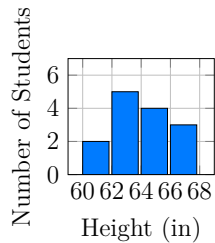


- A. This histogram is correct
 C. The 50–60 range is too high
 B. The 20–30 range is too low
 D. The bars are not properly ordered
- 3) Which question is NOT statistical?
- A. What was the temperature each day last week?
 C. What is the favorite sport of students in this school?
 B. How many hours do sixth graders sleep each night?
 D. What is the boiling point of water?

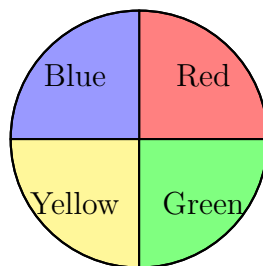


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- 4) The histogram shows the heights (in inches) of students in a class. Which interval contains the most students?



- A. 60–62 inches C. 64–66 inches
 B. 62–64 inches D. 66–68 inches
- 5) Find the median of 2, 5, 8, 11, 14, 17.
- A. 9.5 C. 11
 B. 8 D. 10
- 6) A scientist measures the pH of water samples: 6.8, 7.0, 7.2, 6.9, 7.1, 7.3, 7.0. When ordered: 6.8, 6.9, 7.0, 7.0, 7.1, 7.2, 7.3. The mean is 7.04. What is the MAD?
- A. 0.11 C. 0.5
 B. 7.04 D. 0.15



- 7) The spinner above is spun. Which probability is impossible?

- A. $P(\text{Red}) = 0.25$ C. $P(\text{Purple}) = 0.25$
 B. $P(\text{Blue}) = 0.25$ D. $P(\text{Yellow}) = 0.25$

Wyoming WY-TOPP Practice Test Answer Keys

How to use this Wyoming WY-TOPP 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 wide-range math stamina
3. rework the problem before reading the full explanation, using this reminder:
Give each problem room: read the facts, choose a route, and check the answer.

A calm Wyoming correction routine turns every missed item into useful practice. Complete one round, note the hardest terrain, and prepare that skill for the next test.



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Wyoming Practice Test Answers and Explanations

Review the nine printed WY-TOPP tests with patient, strong, and ready for the next range habits.

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(6.EE.G.9)** Solution A: mass/volume = $50/10 = 5$. Solution B: mass/volume = $75/15 = 5$. Both solutions have the same constant ratio of 5 grams per mL.
- 2) **Choice C is correct.** **(6.NS.C.4C, 6.NS.C.4A, 6.NS.C.4B)** This is an LCM problem. Prime factors: $15 = 3 \times 5$, $25 = 5^2$. LCM = $3 \times 5^2 = 75$ minutes. 75 minutes after noon is 1:15 PM.
- 3) **Choice B is correct.** **(6.NS.C.4C)** GCF of 20 and 16 is 4. So $20 + 16 = 4(5 + 4)$. Only Choice B uses the GCF with whole numbers.
- 4) **Choice C is correct.** **(6.NS.D.6C)** $|-1.2| = 1.2$ and $|1.3| = 1.3$ are not equal, so they are not equidistant from zero.
- 5) **Choice B is correct.** **(6.NS.D.6B)** A point on the y -axis between Quadrants I (upper right) and II (upper left) must have $x = 0$ and positive y . The point $(0, 4)$ satisfies these conditions.
- 6) **The correct answer is 12.** **(6.RP.A.3D)** Divide: $96 \text{ fl oz} \div 8 \text{ fl oz/cup} = 12$ cups.
- 7) **Choice C is correct.** **(6.RP.A.3)** Multiply: $7 \times 2 = 14$ feet.
- 8) **Choice B is correct.** **(6.NS.B.1)** $\frac{1}{2} \div 8 = \frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$ cup per serving.
- 9) **Choice A is correct.** **(6.NS.D.5)** Starting at 0: forward 15 gives +15, backward 8 gives $15 - 8 = 7$, forward 3 gives $7 + 3 = 10$ yards from the start.
- 10) **The correct answer is 1300.** **(6.NS.D.7D)** Net worth = Assets - Debts = $\$1500 - \$200 = \$1300$.
- 11) **The correct answer is 77.** **(6.NS.C.2, 6.NS.C.3)** $9,240 \div 120 = 77$. Students can simplify by dividing both by 10 first: $924 \div 12 = 77$, or use standard long division on the original numbers.
- 12) **Choice A is correct.** **(6.NS.D.7C)** Computing: $|-2| = 2$, $|-5| = 5$, $|6| = 6$, $|-9| = 9$. In order: $2 < 5 < 6 < 9$.
- 13) **Choice C is correct.** **(6.EE.E.2C)** $-9 + 15 = 6$.
- 14) **Choice A is correct.** **(6.EE.E.3)** The GCF of 12 and 8 is 4. Factor: $12x + 8 = 4(3x + 2)$.
- 15) **Choice C is correct.** **(6.EE.F.5)** Multiply both sides by 3: $x = 7 \times 3 = 21$.
- 16) **Choice C is correct.** **(6.EE.F.8)** The symbol $>$ means "greater than," so $p > 15$ reads as "p is greater than 15."
- 17) **Choice D is correct.** **(6.G.H.1)** Area = $11 \times 4 = 44 \text{ cm}^2$.
- 18) **Choice A is correct.** **(6.G.H.3)** Reflection over the y -axis negates the x -coordinate: $(4, -2) \rightarrow (-4, -2)$.
- 19) **The correct answer is Food and Transportation are correctly calculated.** **(6.EE.G.9)** A: Housing is $35\% \times 2000 = \$700$, not $\$800$. Incorrect. B: Food is $25\% \times 2000 = \$500$. Correct. C: Utilities is $12\% \times 2000 = \$240$, not $\$260$. Incorrect. D: Transportation is $10\% \times 2000 = \$200$. Correct. E: Other is $18\% \times 2000 = \$360$, not $\$450$. Incorrect.
- 20) **Choice A is correct.** **(6.SP.I.2)** The population is the entire group of interest (all community members). The sample is the subset of people who actually answered the survey. Samples are drawn from populations to estimate answers.
- 21) **Choice C is correct.** **(6.SP.J.4)** The completed plot has stem 3 leaves 4, 8, 9 and stem 4 leaves 1, 2, 4, 5. The smallest value is 34, so only Choice C is true.
- 22) **Choice A is correct.** **(6.NS.B.1)** The 40% section is largest. 40% of 250 is $0.40 \times 250 = 100$ people, which is more than either 30% section ($0.30 \times 250 = 75$ each).
- 23) **Choice A is correct.** **(6.NS.D.7D)** On a number line, more negative numbers are less. $-3 < -2.5 < 0 < \frac{1}{4} < 1.75$.
- 24) **Choice B is correct.** **(6.NS.D.8)** Same x -coordinate (2): $|3 - (-2)| = |3 + 2| = 5$ units.
- 25) **Choice A is correct.** **(6.NS.C.3)** Negative divided by negative is positive: $\frac{-72}{-9} = 8$.
- 26) **Choice C is correct.** **(6.EE.E.3)** Adding a deposit to an overdrawn balance: $-35 + 50 = 15$ dollars.
- 27) **Choice B is correct.** **(6.EE.E.2C)** Work inside the parentheses first: $5 - 1 = 4$. Then exponent: $3^2 = 9$. Then multiply: $2 \times 4 = 8$. Finally add: $9 + 8 = 17$.
- 28) **Choice A is correct.** **(6.EE.E.2C)** "Three times a number d " is $3d$. "The sum of $3d$ and 5" means $3d + 5$.



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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
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2 ONLINE
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DETAILED ANSWER
EXPLANATIONS