

7 Wyoming WY TOPP

7
PRINTED
TESTS
+
2
ONLINE
TESTS

Grade 6 MATH PRACTICE TESTS

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

Standards-Aligned *Steady Southern*
Problem Solving for Comprehensive
Assessment Program



7 Full-Length
Printed Tests



Standards-Aligned
Math Practice



Detailed Answer Keys
and Explanations



Build Confidence.
Achieve Success.



You've
Got
This!



PREPARE
PRACTICE
SUCCEED



PRACTICE
WITH PURPOSE



STRENGTHEN
MATH SKILLS



REVIEW, IMPROVE,
AND SUCCEED

7 Wyoming WY-TOPP Grade 6 Math Practice Tests

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



Seven 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!

Eight focused rounds using wide-range math stamina

This book gives you seven 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 seven-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?

Eight WY-TOPP tests, 320 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.
Test 7	Final stamina round 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.



Scan me!
For more practice
& answers

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- 1) Which is the MOST statistical question?
- A. How many wheels does a bicycle have? C. How many hours of sleep do sixth graders get each night?
- B. What is the temperature in my room right now? D. What color is my coat?
- 2) A rectangular prism has surface area 550 cm^2 . Its length is 15 cm and width is 10 cm. What is its height?
- A. 5 cm C. 8 cm
- B. 7 cm D. 10 cm
- 3) A frequency table is created from survey data on movie preferences. The table shows: Action: 12; Comedy: 18; Drama: 9; Horror: 6. If this data is represented in a bar graph, which category has the highest bar?

Genre	Frequency
Action	12
Comedy	18
Drama	9
Horror	6

- A. Action C. Drama
- B. Comedy D. Horror



4) A dataset has 10 values. The smallest and largest values are removed, leaving 8 values. Which statement is always true?

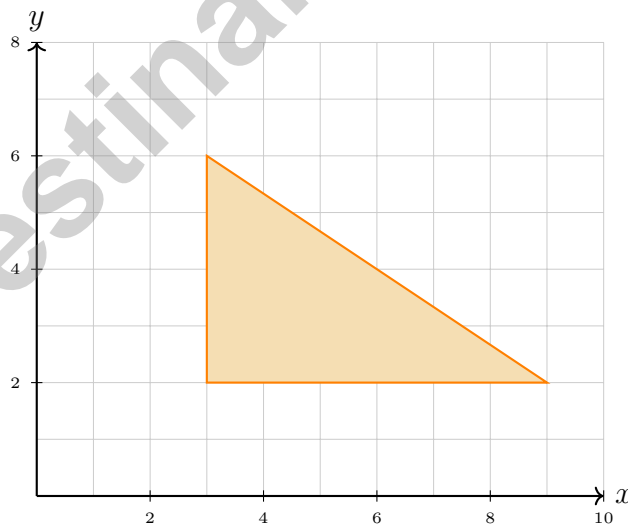
- A. The new range is smaller
- B. The new median is higher
- C. The new mean is lower
- D. The new IQR must change

5) The probability that a student passes a test is $\frac{4}{5}$. What is the probability that the student fails the test?

- A. $\frac{1}{5}$
- B. $\frac{2}{5}$
- C. $\frac{3}{5}$
- D. $\frac{4}{5}$

6) Simplify the ratio 14 : 21.

- A. 1 : 2
- B. 2 : 3
- C. 3 : 2
- D. 14 : 21



7)

Find the area of the right triangle with vertices at (3, 2), (9, 2), and (3, 6).

- A. 10 square units
- B. 12 square units
- C. 14 square units
- D. 16 square units



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- 1) A fish tank is 8 inches long, 6 inches wide, and 5 inches tall. How many cubic inches of water can it hold?
- A. 19 in^3 C. 120 in^3
 B. 38 in^3 D. 240 in^3
- 2) A road sign shows the next rest stop is 3 kilometers away. How many meters away is the rest stop?
- A. 300 meters C. 30,000 meters
 B. 0.3 meters D. 3,000 meters
- 3) A jacket originally costs \$80. The store is offering a 25% discount. What is the sale price?
- A. \$55 C. \$65
 B. \$60 D. \$75
- 4) A concert ticket sells for \$55. The price is increased by 20% for a premium seat upgrade. What is the new price?
- A. \$66 C. \$75
 B. \$44 D. \$110
- 5) A cookie recipe serves 8 people and uses $\frac{3}{4}$ cup of butter. How much butter is needed to serve 4 people?
- A. $\frac{1}{4}$ cup C. $\frac{1}{2}$ cup
 B. $\frac{3}{8}$ cup D. $\frac{2}{3}$ cup



1) What is $|-8|$?

A. -8

C. 0

B. 8

D. 16

2) A student says the rate of 200 miles in 4 hours is 50 miles per hour, but another student says it is 200 miles per hour. Which student is correct and why?

A. The first student is correct; divide
 $200 \div 4 = 50$ miles per hour

C. The second student is correct; the
distance is 200 miles

B. The first student is correct;
multiply $200 \times 4 = 800$

D. Both students are equally correct

3) The ratio table shows the cost of different quantities of books.

Books	2	4	6
Cost	\$8	\$16	\$24

What is the unit price per book?

A. \$2 per book

C. \$6 per book

B. \$4 per book

D. \$8 per book

4) A ratio table compares cups of lemon juice to cups of water in a beverage:

Lemon Juice (cups)	Water (cups)
1	4
2	8
3	12

If lemon juice is on the x-axis and water is on the y-axis, what is the equation of the line?

A. $y = 4x$

C. $y = 2x$

B. $y = 3x$

D. $y = x + 4$



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5) Which three representations are equivalent?

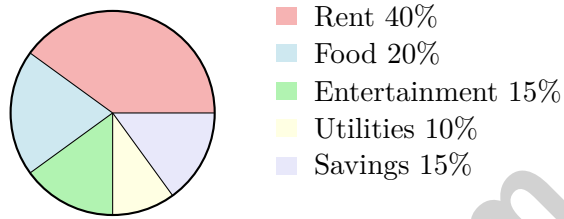
A. 0.2 , $\frac{1}{5}$, and 20%

B. 0.2 , $\frac{2}{5}$, and 20%

C. 0.4 , $\frac{1}{5}$, and 40%

D. 0.4 , $\frac{4}{10}$, and 20%

6) The circle graph shows Ramon's monthly budget allocation (total income \$1000).



How much does Ramon allocate to Entertainment?

A. \$100

B. \$250

C. \$200

D. \$150

7) The maximum capacity is 4,000 gallons. What is the greatest allowed number of gallons?



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.



Wyoming Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice C is correct.** **(6.SP.1.2)** This expects variability across multiple people and requires collecting data. The other questions either have single fixed answers (wheels, temperature at one moment, one coat's color) or are about one person.
- Choice A is correct.** **(6.G.H.4)** $SA = 2(15)(10) + 2(15)H + 2(10)H = 300 + 50H$. Since $550 = 300 + 50H$, $250 = 50H$, so $H = 5$ cm.
- Choice B is correct.** **(6.SP.J.4)** The highest frequency is 18 for Comedy, which would have the tallest bar in the bar graph.
- Choice A is correct.** **(6.SP.J.5D)** Removing min and max values always reduces the range (by definition, range = max - min). The median, mean, and IQR depend on the specific values and may or may not change.
- Choice A is correct.** **(6.NS.C.4C)** Probability of failing = $1 - \frac{4}{5} = \frac{1}{5}$.
- Choice B is correct.** **(6.RP.A.1)** Look for the greatest common factor of 14 and 21. They share a factor of 7, so divide both parts by 7: $\frac{14}{7} : \frac{21}{7} = 2 : 3$. Heads up: choice A (1 : 2) looks close, but it is not equivalent to 14 : 21.
- Choice B is correct.** **(6.G.H.1)** Base: $9 - 3 = 6$ units. Height: $6 - 2 = 4$ units. Area = $\frac{1}{2} \times 6 \times 4 = 12$ square units.
- Choice A is correct.** **(6.SP.J.4)** The values 43, 45, 47, 48 all belong to stem 4 (the 40s), giving 4 leaves. The claim is correct.
- Choice D is correct.** **(6.NS.B.1)** 15% of \$4000 is $0.15 \times 4000 = \$600$.
- The correct answer is 800.** **(6.NS.D.7D)** Total spent: $50\% + 20\% + 10\% = 80\%$ of \$4000 = \$3200. Remaining: $\$4000 - \$3200 = \$800$.
- Choice D is correct.** **(6.SP.J.4)** Each symbol represents 4 students. With 5 symbols: $5 \times 4 = 20$ students.
- Choice A is correct.** **(6.EE.E.2C)** $2^3 = 2 \times 2 \times 2 = 8$. Option B: $2^2 = 4$. Option C: $3^2 = 9$. Option D: $4^2 = 16$.
- Choice C is correct.** **(6.EE.E.2C)** The tree shows $3x$ and 5 combining via addition into $3x + 5$, representing the sum of $3x$ and 5. (Distractor B would be $3(x + 5) = 3x + 15$, which is different.)
- Choice B is correct.** **(6.EE.E.2B)** The coefficient of n is 85. The constant (the term with no variable) is 250.
- Choice B is correct.** **(6.EE.F.8)** $x \geq 3$ means x is at least 3. $x \leq 7$ means x is at most 7. Only 5 falls in the range $[3, 7]$.
- Choice C is correct.** **(6.EE.F.8)** A filled (closed) circle at 3 with an arrow pointing right indicates the number 3 is included and all numbers greater than 3 are solutions.
- Choice B is correct.** **(6.EE.G.9)** In this graph, Celsius is on the x -axis (independent variable); Fahrenheit is on the y -axis (dependent variable). We choose a temperature in Celsius first, then find the Fahrenheit equivalent.
- The correct answer is A: 6 feet = 72 inches; C: 5 meters = 500 centimeters.** **(6.RP.A.3D)** A is correct: $6 \times 12 = 72$ inches. B is incorrect: $3 \times 16 = 48$ ounces, not 32. C is correct: $5 \times 100 = 500$ cm. D is incorrect: $2 \times 4 = 8$ quarts, not 10. E is incorrect because 4 km = 4,000,000 mm, not 400,000 mm.
- Choice B is correct.** **(6.G.H.2)** From $V = L \times W \times H$, we have $120 = L \times 5 \times 4$. So $L = 120 \div 20 = 6$ cm.
- Choice A is correct.** **(6.G.H.3)** Width = $24 \div 8 = 3$ units. Perimeter = $2(8 + 3) = 2(11) = 22$ units.
- Choice A is correct.** **(6.RP.A.3D)** Divide sugar by cupcakes: $3 \div 24 = \frac{3}{24} = \frac{1}{8}$ cup per cupcake.
- The correct answer is 4.** **(6.NS.D.8)** The points share the same y -coordinate (3). The distance is $|6 - 2| = 4$ units.
- Choice A is correct.** **(6.RP.A.3B)** Honey Flakes cost $3.60 \div 12 = \$0.30$ per ounce. Crispy Oats cost $5.12 \div 16 = \$0.32$ per ounce. Honey Flakes has the lower unit price.
- Choice B is correct.** **(6.RP.A.3A)** The unit cost is $\frac{\$0.80}{2 \text{ pencils}} = \0.40 per pencil. Verify: $\frac{\$1.60}{4} = \0.40 ✓.
- The correct answer is 6.** **(6.NS.C.3)** Step 1: $(-4) \times (-9) = 36$ (negative times negative is positive). Step 2: $36 \div 6 = 6$.
- The correct answer is 35.** **(6.EE.E.3)** Balance after two withdrawals: $150 - 75 - 40 = 35$ dollars.



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Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 7 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

MASTER TODAY. SUCCEED TOMORROW.

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 comprehensive assessments.

With 7 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 concepts aligned with standards through meaningful practice.



Test Confidence

Become familiar with test formats and improve accuracy and speed.



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.



7 FULL-LENGTH
PRINTED TESTS



STANDARDS-
ALIGNED PRACTICE



DETAILED ANSWER
KEYS & EXPLANATIONS