

GRADE

6

MATH

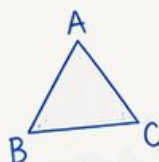
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Wyoming WY TOPP

PRACTICE TESTS

Standards-Aligned
Steady Southern
Problem Solving for
Comprehensive
Assessment Program

$$2x + 3 = 11$$



$$7^2 = 49$$

BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!



6 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



6 PRINTED TESTS + 2 ONLINE TESTS

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



PRACTICE

Sharpen skills with targeted practice tests



REVIEW

Understand concepts and strengthen skills



SUCCEED

Build confidence and achieve your best

6 Wyoming WY-TOPP Grade 6 Math Practice Tests

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



Six 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 six 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 six-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 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

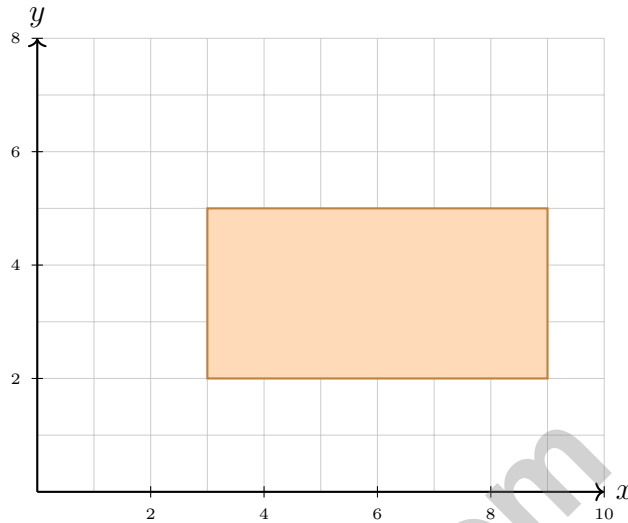
The tests are mixed on purpose. Wide-range math stamina means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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1)

A floor plan section is rectangular with corners at $(3, 2)$, $(9, 2)$, $(9, 5)$, and $(3, 5)$. What is its area?

- A. 15 square units C. 21 square units
 B. 24 square units D. 18 square units

2) A water tank contains g gallons. It loses 3 gallons per hour due to evaporation. After 2 hours, how much water remains?

- A. $g - 3$ C. $g + 6$
 B. $g - 6$ D. $3g - 2$

3) Which three numbers are correctly ordered from least to greatest?

- A. $-2.1, -1.9, 0.5$ C. $0.5, -1.9, -2.1$
 B. $-1.9, -2.1, 0.5$ D. $-1.9, 0.5, -2.1$



9) Which expression represents “the quotient of a number g and 3, increased by 1”?

A. $\frac{g}{3} + 1$

B. $3 + \frac{g}{1}$

C. $\frac{g + 1}{3}$

D. $g(3 + 1)$

10) After simplifying $8y + 3 - 2y + 5y - 1$, what is the coefficient of y ?

11) Consider the expression and its parts:

Expression: $8 - 3x + 6y$

Constant: 8

Variable terms: $-3x, 6y$

Coefficients: $-3, 6$

In the term $-3x$, how many factors are being multiplied together?

A. 1

B. 4

C. 3

D. 2

12) Which value is a solution to both $x > 3$ and $x < 9$?

A. $x = 3$

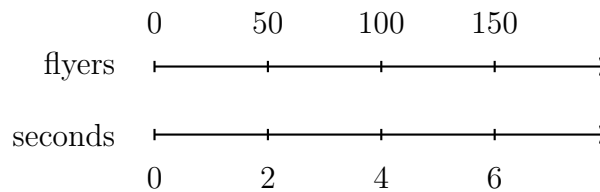
B. $x = 10$

C. $x = 6$

D. $x = 2$



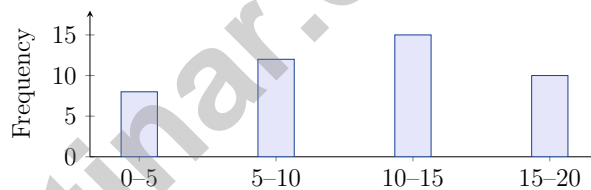
1) A copy machine prints flyers at a constant rate.



How many flyers are printed per second?

- A. 15 flyers/sec
- B. 20 flyers/sec
- C. 25 flyers/sec
- D. 30 flyers/sec

2) A histogram with bins of width 5 shows data ranging from 0 to 20. If the frequencies are 8, 12, 15, 10, what does each frequency represent?



- A. The number of data points in each bin
- B. The width of each bin
- C. The midpoint of each bin
- D. The average of the data

3) A histogram shows test scores for a class. The data has a center (mean) of 75 and a spread (range) of 30. If the highest score is 95, what is the lowest score?

- A. 45
- B. 55
- C. 65
- D. 75



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4) A student rolls two standard dice. If the probability of getting a sum of 12 is $\frac{1}{36}$, is this event likely or unlikely?

A. Likely

C. Certain

B. Impossible

D. Unlikely

5) A fitness coach records the number of push-ups done by 11 athletes:

Stem	Leaf
2	3, 5, 8, 9
3	1, 4, 6, 7
4	2, 5, 8

Which interval contains the most data points?

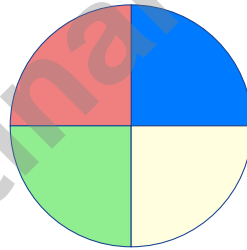
A. 20–29

C. Both have equal counts

B. 30–39

D. 40–49

6)



If a circle graph is divided into 4 equal sections, how many degrees is each central angle?

A. 90°

C. 60°

B. 72°

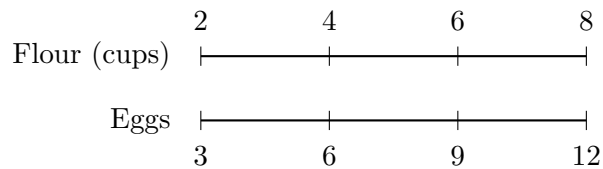
D. 120°



5) A shirt is on sale for 50% off. Which decimal represents the discount?

- A. 0.05 C. 5.0
 B. 0.5 D. 50.0

6) A recipe uses 2 cups of flour for every 3 eggs. How many cups of flour are needed for 12 eggs?



- A. 4 C. 8
 B. 6 D. 10

7) A company's quarterly profit or loss can be shown in a table. If profit is positive and loss is negative, which quarter shows a loss?

Quarter	Profit/Loss (\$)
Q1	+2000
Q2	-500
Q3	+1500
Q4	+3000

- A. Q1 C. Q3
 B. Q4 D. Q2

8) A trapezoid has bases of 15 cm and 9 cm. If the area is 72 cm^2 , what is the height?

- A. 4 cm C. 8 cm
 B. 6 cm D. 12 cm



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

Practice Test 1 Answers and Explanations

- Choice D is correct.** **(6.G.H.1)** Width: $9 - 3 = 6$ units. Height: $5 - 2 = 3$ units. Area = $6 \times 3 = 18$ square units.
- Choice B is correct.** **(6.EE.F.6)** Water lost = $3 \times 2 = 6$ gallons. Remaining = $g - 6$ gallons.
- Choice A is correct.** **(6.NS.D.7D)** $-2.1 < -1.9 < 0.5$. Negatives come before positives; among negatives, more negative is less.
- Choice C is correct.** **(6.NS.D.8)** Same y -coordinate (-2) : $|6 - 0| = 6$ units.
- Choice C is correct.** **(6.EE.E.2C)** The distance from -8 to 6 is $6 - (-8) = 6 + 8 = 14$ units.
- Choice D is correct.** **(6.NS.C.3)** Negative times positive is negative: $(-10) \times 3 = -30$.
- Choice D is correct.** **(6.EE.E.3)** Profit minus loss: $50,000 - 12,000 = \$38,000$ profit.
- Choice A is correct.** **(6.EE.E.2C)** Evaluate the exponent first: $3^2 = 9$. Then divide and multiply: $50 \div 5 = 10$ and $2 \times 9 = 18$. Finally add: $10 + 18 = 28$.
- Choice A is correct.** **(6.EE.E.2C)** "The quotient of g and 3 " is $\frac{g}{3}$. "Increased by 1 " means add 1 : $\frac{g}{3} + 1$.
- The correct answer is 11.** **(6.EE.E.3)** Combine y terms: $8y - 2y + 5y = 11y$.
- Choice D is correct.** **(6.EE.E.2B)** The term $-3x$ is the product of -3 (the coefficient) and x (the variable), giving two factors: -3 and x .
- Choice C is correct.** **(6.EE.F.8)** $x > 3$ and $x < 9$ means x is between 3 and 9 . Only 6 satisfies both: $6 > 3$ and $6 < 9$.
- Choice C is correct.** **(6.EE.F.8)** "Under 16 " means strictly less than 16 , not including 16 . The inequality is $a < 16$.
- Choice C is correct.** **(6.EE.G.9)** As x increases, the value of $5x$ increases, which causes $y = 5x + 2$ to increase. The slope 5 and intercept 2 are constants.
- Choice C is correct.** **(6.G.H.2)** $V = 4.5 \times 3 \times 2.667 = 4.5 \times 3 \times \frac{8}{3} = 4.5 \times 8 = 36 \text{ cm}^3$.
- Choice B is correct.** **(6.G.H.3)** Perimeter = $2(8 + 4) = 2(12) = 24$ units.
- Choice B is correct.** **(6.G.H.4)** $SA = 2(8)(4) + 2(8)(3) + 2(4)(3) = 64 + 48 + 24 = 152 \text{ m}^2$.
- Choice D is correct.** **(6.RP.A.1)** Area = $\pi r^2 \approx 3.14 \times 15^2 = 3.14 \times 225 = 706.5 \text{ ft}^2$.
- Choice D is correct.** **(6.SP.1.2)** When mean $<$ median, the distribution is skewed left. Small outliers on the left pull the mean down below the median.
- Choice C is correct.** **(6.SP.J.5D)** The median of 5 values is the 3 rd value. For the median to be 12 , the middle position must equal 12 , so $x = 12$.
- Choice C is correct.** **(6.SP.J.5C)** Range depends only on the extreme values (max and min), so an outlier directly changes the range. The IQR ignores extremes, and MAD is less sensitive.
- The correct answer is y -coordinate changes sign, x -coordinate stays the same.** **(6.NS.D.6B)** When reflecting across the x -axis, the y -coordinate changes to $-q$ (B is correct) and the x -coordinate remains p (D is correct). This means the reflected point is $(p, -q)$. Statement A is false—only the y -coordinate changes sign. Statement C is false because the reflection is vertical. Statement E describes the result but is not separately identifying a true property about the transformation.
- Choice C is correct.** **(6.SP.J.4)** Histograms are specifically designed to display grouped continuous data and show how the data is distributed across intervals, making option C correct.
- Choice B is correct.** **(6.RP.A.1)** Plot X 's range is $45 - 5 = 40$; Plot Y 's range is $35 - 15 = 20$. Although both have the same IQR, Plot X spans a wider interval overall.
- The correct answer is 7.** **(6.EE.F.5)** Divide both sides by 2 : $x = 7$.
- Choice B is correct.** **(6.SP.J.5D)** For symmetric, bell-shaped distributions, the mean is at or very near the peak/center of the distribution.
- Choice B is correct.** **(6.NS.C.4C)** $\frac{1}{4} = 0.25$, which is less than 0.5 , so the event is unlikely.



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For more practice
& answers

Hi, Hero!

◇ Once there was a Grade 6 student who took 6 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

Storyteller tip: on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

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

Jay Daie

Your Math Storyteller

PRACTICE 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 6 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.

6
PRINTED
TESTS

+

2
ONLINE
TESTS

PERFECT FOR:

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

★ BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!

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.



6 FULL-LENGTH
PRINTED TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS