

8 Wyoming WY TOPP

GRADE 6

MATH PRACTICE TESTS

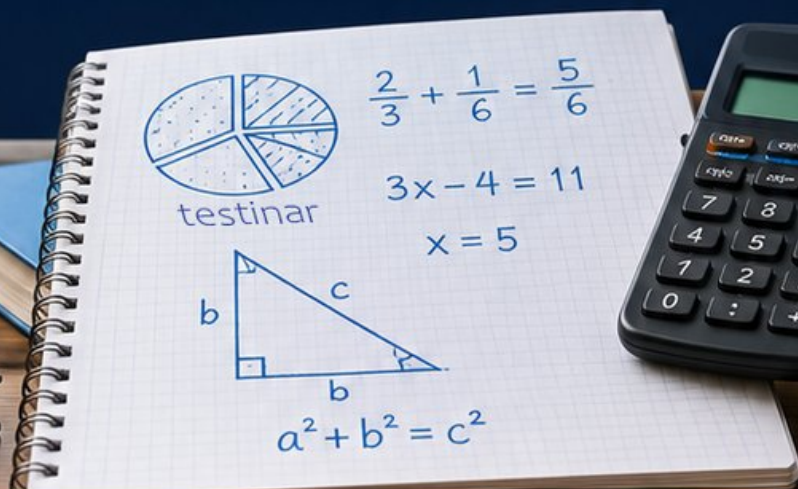
8
PRINTED
TESTS

+

2
ONLINE
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



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 Wyoming WY-TOPP Grade 6 Math Practice Tests

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



Eight 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 eight 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 eight-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.
Tests 7–8	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.



Scan me!
For more practice
& answers

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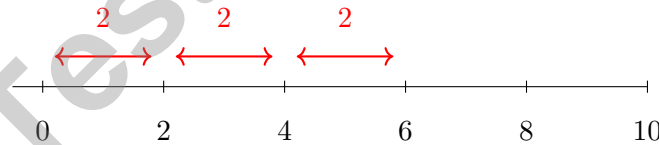
1) The table shows the cost of parking at a garage.

Hours Parked	1	2	3	4
Cost (\$)	5	10	15	20

Which statement is correct?

- A. Hours parked is the dependent variable
 B. Cost is the independent variable
 C. The rate is \$5 per hour
 D. The equation is $h = 5c$
- 2) If the area of a triangle is 56 cm^2 and the height is 7 cm, what is the base?
- A. 8 cm
 B. 16 cm
 C. 28 cm
 D. 56 cm
- 3) A rectangular prism has length 4 ft, width 3 ft, and height $2\frac{1}{2}$ ft. What is its volume?
- A. 9.5 ft^3
 B. 24 ft^3
 C. 30 ft^3
 D. 60 ft^3

4)



The number line shows 3 jumps of 2 units each to the right. Which multiplication represents this?

- A. $3 \times 2 = 6$
 B. $2 + 2 + 2 = 6$
 C. $(-2) \times (-3)$
 D. $(-2) \times 3$



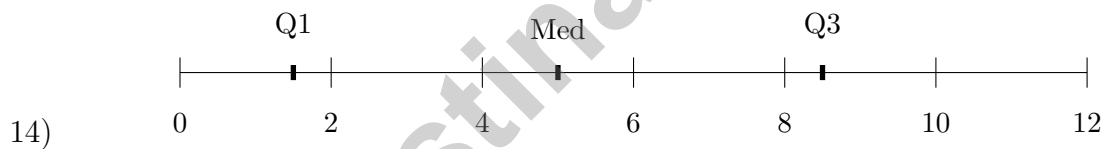
11) The diameter of a circular pond is 8 meters. What is the approximate circumference using $\pi \approx 3.14$?

- A. 12.56 meters C. 50.24 meters
 B. 100.48 meters D. 25.12 meters

12) A student's quiz scores are 78, 82, 85, 88. If the student gets a 95 on the next quiz, what is the new mean?

- A. 85.6 C. 86.4
 B. 86 D. 87

13) Which decimal is equivalent to $-\frac{7}{10}$? Write your answer as a decimal.



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

- A. 5 C. 7
 B. 6.5 D. 3.5



1) Simplify $9c - 4c + c$.

A. $5c$

C. $8c$

B. $14c$

D. $6c$

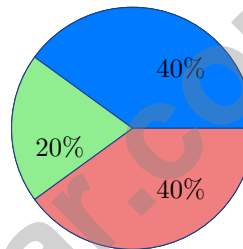
2) A 3-digit number has a stem-and-leaf representation with stem 23 and leaf 5. What is the number?

A. 235

C. 253

B. 325

D. 52



3)

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

C. 80

B. 60

D. 100

4) The histogram of student test scores shows a peak on the left side with a long tail to the right. What is the shape?

A. Skewed left

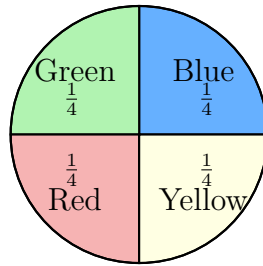
C. Symmetric

B. Bimodal

D. Skewed right



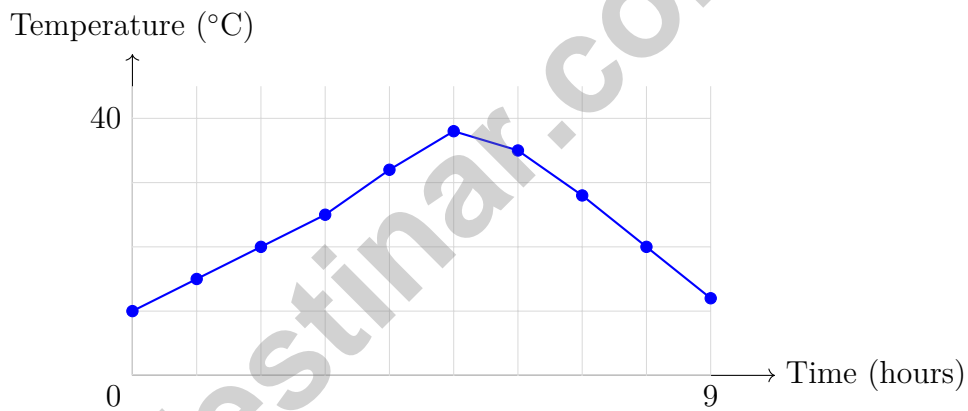
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5)

The spinner above is divided into sections with the labeled probabilities. What is the probability of spinning blue or red?

- A. $\frac{1}{4}$
- C. $\frac{3}{4}$
- B. $\frac{3}{8}$
- D. $\frac{1}{2}$



6)

This line graph shows how outdoor temperature changed from 6 AM to 3 PM. Which statement is TRUE?

- A. Temperature peaked around noon (5 hours after start)
- C. Temperature was highest at 6 AM
- B. Temperature decreased continuously all day
- D. Temperature was constant throughout the day

1) Which phrase is closest in meaning to $m < 9$?

A. m is at most 9

C. m is greater than 9

B. m is no less than 9

D. m is less than 9

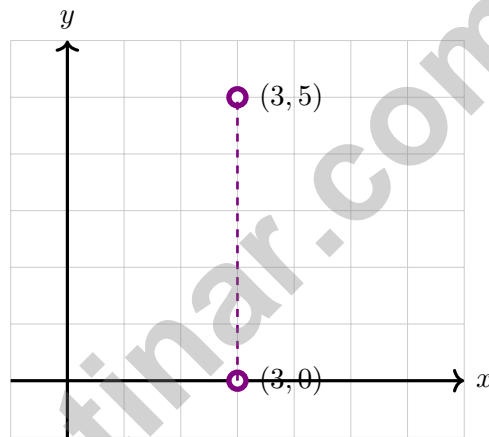
2) Compare -0.2 and -0.02 . Which is greater?

A. -0.2

C. They are equal

B. Cannot compare

D. -0.02



3)

Find the distance between $(3, 0)$ and $(3, 5)$.

A. 3 units

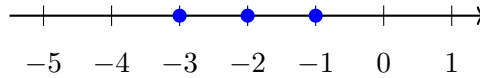
C. 5 units

B. 4 units

D. 8 units

4) In the prime factorization $56 = 2^3 \times 7$, what is the exponent on 2?





5)

The number line shows three identical jumps to the left. Which multiplication does this model?

A. $(-1) \times (-3)$

C. 3×1

B. $3 \times (-1)$

D. $(-3) \times (-1)$

6) An athlete lost 5 pounds one month and lost 3 pounds the next month. What is the total weight loss?

A. -8 pounds

C. 8 pounds

B. 2 pounds

D. -2 pounds

7) Evaluate: $(2 + 3)^2 - 5$

A. 10

C. 25

B. 20

D. 30

8) Which expression correctly translates “12 less than the product of 2 and a number a ”?

A. $12 - 2a$

C. $2a + 12$

B. $2(a - 12)$

D. $2a - 12$

9) A rectangle has length ℓ and width 5. The area is 5ℓ square units. What are the factors of 5ℓ ?

A. 5 only

C. 5 and ℓ

B. ℓ only

D. 5ℓ only



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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.



Scan me!
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& answers

Wyoming Practice Test Answers and Explanations

Review the eight 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.EE.G.9)** Hours parked (independent) determines cost (dependent). Cost increases by \$5 for each additional hour. The equation is $c = 5h$.
- Choice B is correct.** **(6.G.H.1)** Rearranging: $56 = \frac{1}{2} \times b \times 7 \Rightarrow b = 16$ cm.
- Choice C is correct.** **(6.G.H.2)** Volume = $L \times W \times H = 4 \times 3 \times 2.5 = 30$ ft³.
- Choice A is correct.** **(6.NS.C.3)** Three jumps of 2 units to the right starting from 0 reach 6. This represents $3 \times 2 = 6$ (three groups of 2).
- Choice B is correct.** **(6.EE.E.3)** Final temperature: $32 + (-5) + (+8) + (-6) = 32 - 5 + 8 - 6 = 29^\circ$ F.
- Choice B is correct.** **(6.EE.E.2C)** Parentheses: $5 + 1 = 6$. Exponent: $6^2 = 36$. Division: $36 \div 3 = 12$. Finally add: $12 + 4 = 16$.
- Choice A is correct.** **(6.EE.E.2C)** “The product of a and b ” is ab . “The sum of ab and c ” is $ab + c$.
- Choice B is correct.** **(6.EE.E.2B)** In option B, the term $-2m$ has coefficient -2 . Other options: A has no -2 , C has no negative terms, D has -6 (not -2).
- Choice C is correct.** **(6.EE.F.8)** $-5 < n < 5$ means n is strictly between -5 and 5 . Only 0 satisfies this condition.
- Choice C is correct.** **(6.G.H.4)** Base area = $8^2 = 64$ cm². Lateral area = $4 \times \frac{1}{2}(8)(6) = 96$ cm². Total $SA = 64 + 96 = 160$ cm².
- Choice D is correct.** **(6.RP.A.1)** Circumference $C = \pi d \approx 3.14 \times 8 = 25.12$ meters.
- Choice A is correct.** **(6.SP.J.5D)** New mean = $\frac{78 + 82 + 85 + 88 + 95}{5} = \frac{428}{5} = 85.6$.
- The correct answer is -0.7 .** **(6.NS.D.6C)** $\frac{7}{10}$ means 7 tenths, which is written as 0.7. The negative version is -0.7 .
- Choice C is correct.** **(6.SP.J.5C)** IQR = $Q3 - Q1 = 8.5 - 1.5 = 7$.
- Choice C is correct.** **(6.SP.J.4)** Total: $4 + 9 + 7 + 3 = 23$ plants measured.
- Choice B is correct.** **(6.RP.A.1)** The left edge of the box is Q_1 , the first quartile.
- Choice C is correct.** **(6.SP.J.5D)** The spacing increases toward the right (gaps: 3, 4, 3, 3, 4, 6), with a longer tail on the right side.
- Choice C is correct.** **(6.NS.C.4C)** Total squares = 50. Pink squares = 25. Probability = $\frac{25}{50} = \frac{1}{2}$.
- Choice D is correct.** **(6.RP.A.1)** The 5 blue parts stand for 25 units, so each part is $25 \div 5 = 5$ units. Yellow is 3 parts, so $3 \times 5 = 15$ units.
- Choice A is correct.** **(6.RP.A.3D)** A rate compares two quantities with different units. Divide the distance by the time: $180 \div 3 = 60$ miles per hour.
- The correct answer is A (distance: $|4 - 0| = 4$) and B (distance: $|7 - 3| = 4$).** **(6.NS.D.8)** A has horizontal distance $|4 - 0| = 4$, and B has vertical distance $|7 - 3| = 4$. Choices C, D, and E have distances 3, 5, and 5 units.
- Choice C is correct.** **(6.RP.A.3B)** Plan X costs $18 \div 4.5 = \$4.00$ per GB. Plan Y costs $27.50 \div 7.5 = 3.\overline{66}$ per GB (approximately \$3.67), so Plan Y costs less per gigabyte.
- Choice B is correct.** **(6.RP.A.3A)** For a 7:3 ratio, if flour = 14, then the scale factor is $14 \div 7 = 2$. So baking powder = $3 \times 2 = 6$. The point (14, 6) is correct.
- The correct answer is 18.** **(6.EE.F.5)** Add 4 to both sides: $x = 14 + 4 = 18$. The inverse of subtracting 4 is adding 4.
- Choice D is correct.** **(6.RP.A.3C)** Percent means “per 100,” so $62\% = \frac{62}{100}$, not $\frac{62}{10}$. This is a common error analysis item.
- Choice A is correct.** **(6.NS.D.7D)** With only \$300 and needing \$800, Sophia should save more money first. Using a debit card would overdraw her account (negative balance), and using credit card debt for a purchase like this is not recommended at this grade level.



Hi, Math Pilot!

◇ 8 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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.



Understand Key Concepts

Reinforce important math ideas 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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ 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.



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS