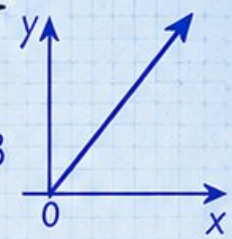
3 Wyoming WY TOPP

GRADE 6 MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



$y = 2x + 3$

$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$

36% of 150 = ?

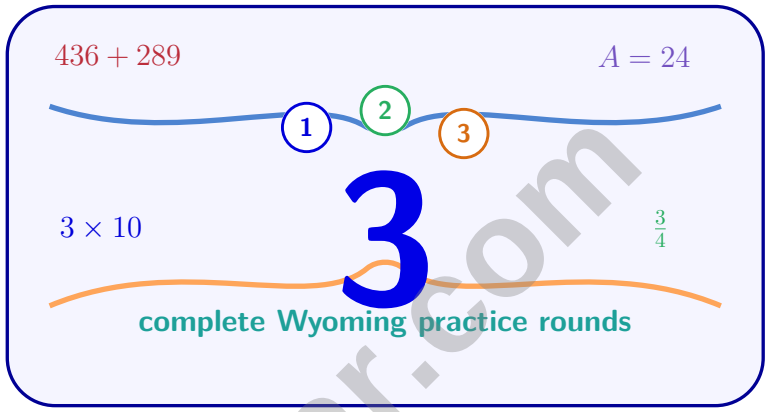
3 PRINTED TESTS

2 ONLINE TESTS

- Build Confidence
- Master Key Math Skills
- Answer Explanations for Every Question
- Test-Taking Strategies That Work

3 Wyoming WY-TOPP Grade 6 Math Practice Tests

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



Three 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!

Three focused rounds using wide-range math stamina

This book gives you three 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.

How to Use This Book

A three-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?

Three WY-TOPP tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
Answer Pages	Compact keys and explanations that show why each answer works.

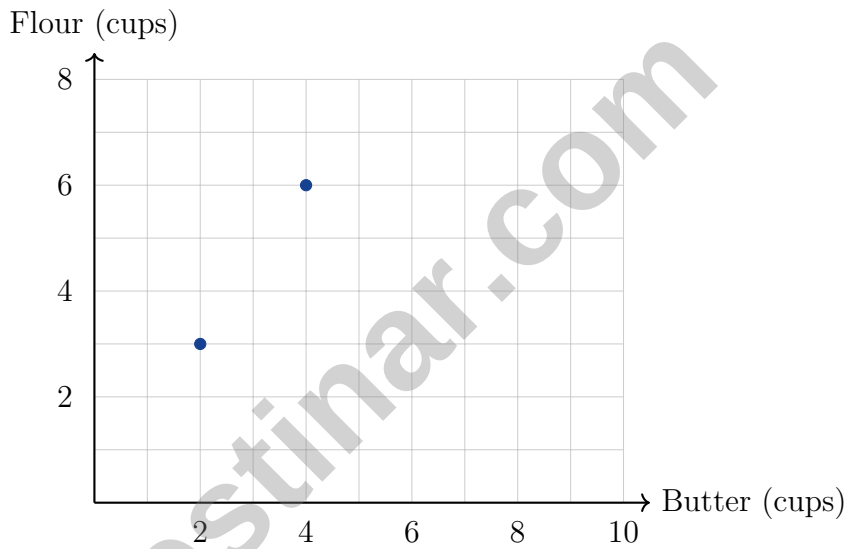
The tests are mixed on purpose. Wide-range math stamina means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.

Table of Contents

1) Which number is NOT between −4 and 0 on a number line?

☐ A. −3
☐ B. −2
☐ C. −1
☐ D. −5

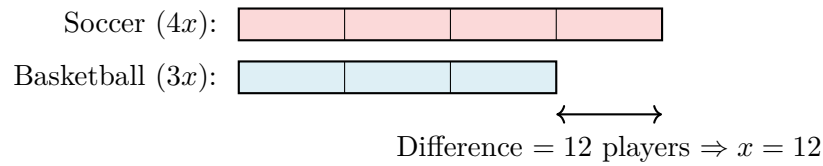
2) A bakery makes cookies using a 2:3 ratio of butter to flour (in cups). The graph has butter on the x-axis and flour on the y-axis. If a recipe uses 8 cups of butter, what is the y-coordinate of this point?



☐ A. 10
☐ B. 11
☐ C. 12
☐ D. 13

3) A smoothie recipe uses strawberries and bananas in a 5 : 3 ratio. If the recipe calls for 15 strawberries, how many bananas should be added?

4) The ratio of soccer players to basketball players on a team is 4 : 3. There are 12 more soccer players than basketball players. How many basketball players are there?



☐ A. 30 players
☐ B. 36 players
☐ C. 40 players
☐ D. 48 players

5) When displaying temperature data that varies seasonally throughout a year, which display would be LEAST effective?

☐ A. Line graph with months on x-axis
☐ B. Dot plot of all 365 daily temperatures
☐ C. Histogram grouping temperatures into ranges
☐ D. Bar graph with one bar per month

6) Convert $\frac{1}{5}$ to a percent.

☐ A. 5%
☐ B. 15%
☐ C. 20%
☐ D. 50%

7) A jacket costs $80 after a 20% discount. What was the original price?

☐ A. $96
☐ B. $160
☐ C. $120
☐ D. $100

8) A package of meat weighs 1.2 kilograms. How many grams is this?

☐ A. 12 grams
☐ B. 120 grams
☐ C. 1,200 grams
☐ D. 12,000 grams

9) A student's monthly allowance is \$200. She wants to allocate money to savings, entertainment, and snacks in the ratio 3 : 2 : 1. How much should she allocate to savings?

☐ A. \$50
☐ B. \$75
☐ C. \$100
☐ D. \$120

10) A table shows the relationship between pounds of apples (a) and total cost (c, in dollars).

Apples (lbs)	0	2	4	6
Cost (\$)	0	3	6	9

A student claims: "The relationship is proportional because the cost increases by \$3 every 2 pounds." Which response best completes the student's reasoning?

☐ A. Yes; a constant increase means proportional
☐ B. No; proportional means the ratio c/a is constant
☐ C. Yes; since it passes through $(0, 0)$ and has constant increase
☐ D. No; the ratio changes

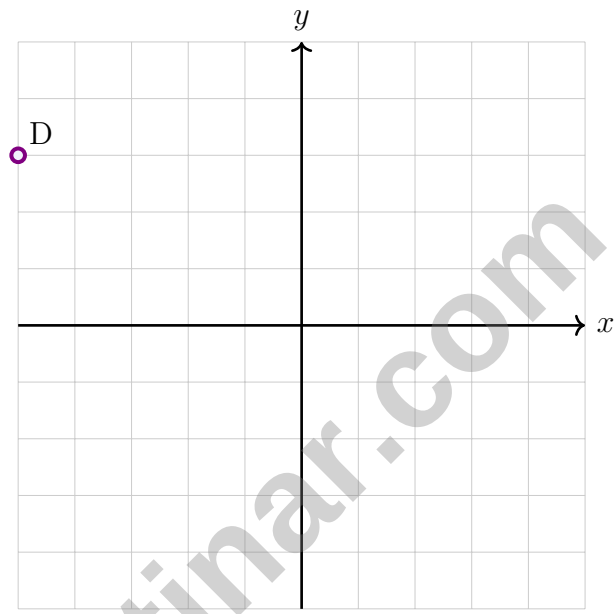
11) Ina saves \$500 in year 1. In year 2, her savings increases by 20%. How much does she save in year 2?

☐ A. \$520
☐ B. \$580
☐ C. \$700
☐ D. \$600

1) Which triangle has the same area as a rectangle with length 12 cm and width 5 cm?

☐ A. Base 6 cm, height 10 cm
☐ B. Base 10 cm, height 12 cm
☐ C. Base 12 cm, height 5 cm
☐ D. Base 20 cm, height 3 cm

2)



Point D is at $(-5, 3)$ and is reflected over the y-axis. What is the x-coordinate of D'?

☐ A. -5
☐ B. 3
☐ C. 5
☐ D. -3

3) A circular mural has a radius of 4 meters. A student calculates the area as $\pi \times 4 \approx 12.56$ m^2. What error did the student make?

☐ A. Forgot to use π
☐ B. Used the wrong value of π
☐ C. Used πr instead of πr^2
☐ D. Doubled the radius

4) Which pairs a question with the correct type?

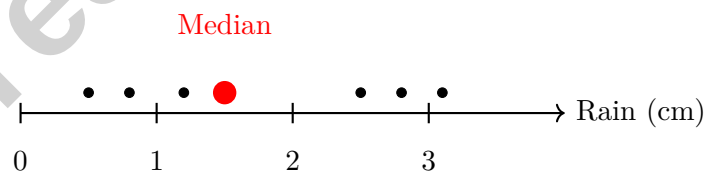
☐ A. "How many days are in February?" (Statistical)
☐ B. "What is the price of apples?" (Non-statistical)
☐ C. "What are the weights of puppies in a litter?" (Statistical)
☐ D. "What colors are the backpacks in class?" (Non-statistical)

5) A rectangular aquarium has length 10 inches, width 6 inches, and height 8 inches. Calculate its volume in cubic inches.

6) A large IQR indicates what about a data set?

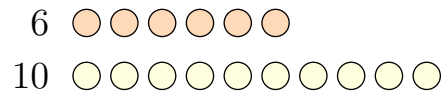
☐ A. The data is very tightly clustered
☐ B. There are no outliers present
☐ C. All values are identical
☐ D. The middle 50% of the data is spread out

7) A dot plot shows rainfall (cm) for 7 days: $0.5, 0.8, 1.2, 1.5, 2.5, 2.8, 3.1$. Which represents the median?



☐ A. 0.8
☐ B. 1.9
☐ C. 2.5
☐ D. 1.5

1)



The diagram represents a ratio of 6 : 10. Which statement about the ratio 6 : 10 is FALSE?

☐ A. It simplifies to 3 : 5.
☐ B. It can be written as $\frac{6}{10}$ or $\frac{3}{5}$.
☐ C. It is equivalent to 12 : 20.
☐ D. It is equivalent to 5 : 6.

2) A parallelogram has an area of 84 cm^2 and a height of 7 cm. What is the length of the base?

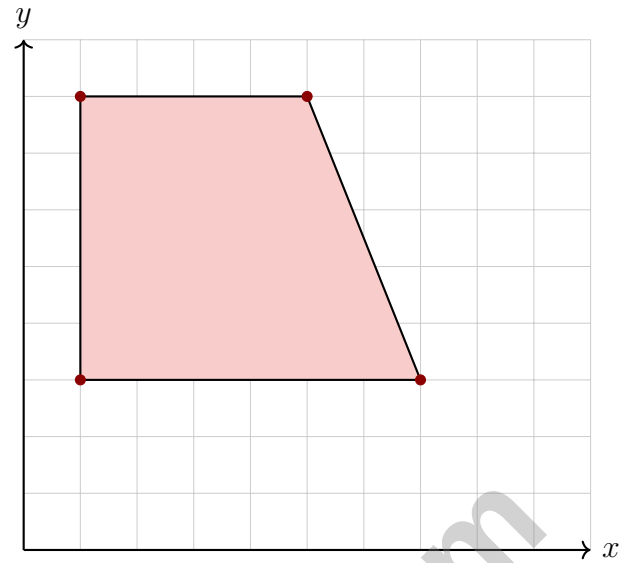
☐ A. 6 cm
☐ B. 12 cm
☐ C. 14 cm
☐ D. 21 cm

3) A point is located on the negative x-axis. What is its y-coordinate?

4) A rectangular prism has volume 60 in^3, length 5 in, and height 3 in. What is its width?

☐ A. 2 in
☐ B. 3 in
☐ C. 4 in
☐ D. 5 in

5)



What is the length of the top side?

☐ A. 4 units
☐ B. 5 units
☐ C. 6 units
☐ D. 7 units

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

Practice Test 1 Answers and Explanations

1) **Choice D is correct.** 6.NS.D.5 Numbers between -4 and 0 are -3, -2, and -1. The number -5 is less than -4, so it is not between -4 and 0.
2) **Choice C is correct.** 6.RP.A.3A The ratio is butter:flour = 2:3. If butter = 8, the scale factor is $8 \div 2 = 4$. So flour $= 3 \times 4 = 12$ cups. The point is $(8, 12)$.
3) **The correct answer is 9.** 6.RP.A.1 Strawberries are the 5-part amount. Since $15 \div 5 = 3$, each part is 3, and bananas are 3 parts: $3 \times 3 = 9$.
4) **Choice B is correct.** 6.RP.A.3 Ratio 4 : 3 means Soccer $= 4x$ and Basketball $= 3x$. Difference: $4x - 3x = 12$, so $x = 12$. Basketball players: $3 \times 12 = 36$.
5) **Choice B is correct.** 6.SP.J.4 A dot plot with 365 data points would be too crowded to read or interpret meaningfully. Line graphs, histograms, and bar graphs all organize data more effectively for large datasets.
6) **Choice C is correct.** 6.RP.A.3C $\frac{1}{5} = \frac{20}{100} = 20\%$, since $1 \times 20 = 20$ and $5 \times 20 = 100$.
7) **Choice D is correct.** 6.RP.A.3D If the discount is 20%, the customer pays 80% of the original price. So $0.80 \times$original $=$ \$80. Original $=$ \$80 $\div$ 0.80 $=$ \$100.
8) **Choice C is correct.** 6.RP.A.3D Multiply: $1.2 \times 1000 = 1200$ grams.
9) **Choice C is correct.** 6.NS.D.7D Total ratio parts: $3 + 2 + 1 = 6$. Savings share: $\frac{3}{6} \times \$200 = \frac{1}{2} \times \$200 = \$100$.
10) **Choice C is correct.** 6.EE.G.9 A constant increase alone is not enough, but this table also passes through $(0, 0)$ and has a constant ratio: $c/a = 3/2 = 6/4 = 9/6 = 1.5$. Those facts confirm proportionality.
11) **Choice D is correct.** 6.EE.G.9 Year 2 savings: \$500 + 20% of \$500 = \$500 + \$100 = \$600.
12) **Choice B is correct.** 6.RP.A.3 To find the actual length from a drawing length, multiply by the scale factor: 3 inches $\times$ 4 feet per inch $=$ 12 feet. The student divided $(3 \div 4 = \frac{3}{4})$ instead of multiplying.
13) **Choice B is correct.** 6.NS.B.1 $\frac{6}{7} \times \frac{3}{2} = \frac{18}{14} = \frac{9}{7}$.
14) **Choice A is correct.** 6.NS.C.2, 6.NS.C.3 Use long division or estimation: $24 \times 50 = 1{,}200$, leaving 48. Then $48 \div 24 = 2$, so $1{,}248 \div 24 = 52$.
15) **Choice A is correct.** 6.NS.C.3 Add: $0.75 + 1.2 + 0.8 + 0.6 = 3.95$ kg.
16) **Choice C is correct.** 6.NS.C.4C, 6.NS.C.4A, 6.NS.C.4B Factors of 22: $1, 2, 11, 22$. Factors of 33: $1, 3, 11, 33$. Common factors: $1, 11$. GCF is 11.
17) **Choice A is correct.** 6.NS.C.4C GCF of 30 and 24 is $2 \times 3 = 6$. So $30 + 24 = 6(5 + 4)$.
18) **Choice D is correct.** 6.NS.D.7C $|-1| = 1$ and $|1| = 1$, so $1 + 1 = 2$.
19) **Choice D is correct.** 6.NS.D.6C Using midpoint formula: $\frac{-2+x}{2} = -0.5 \Rightarrow -2 + x = -1 \Rightarrow x = 1$.
20) **The correct answer is 60 items per box.** 6.RP.A.3D Divide total items by number of boxes: $480 \div 8 = 60$ items per box.
21) **Choice B is correct.** 6.NS.D.6B Reflecting across the y-axis changes the sign of the x-coordinate. The point $(7, -2)$ becomes $(-7, -2)$.
22) **The correct answer is $4 : 6 = 2 : 3$ (dividing by 2) and $4 : 6 = 8 : 12$ (multiplying by 2)..** 6.RP.A.1 Nice checking: Choice A works because 4 : 6 simplifies to 2 : 3, and Choice B works because multiplying both parts of 4 : 6 by 2 gives 8 : 12. The other choices change the relationship.
23) **Choice A is correct.** 6.NS.D.7D Negatives come before positives. $-\frac{1}{3} < -\frac{1}{6}$ and $\frac{1}{6} < \frac{1}{3}$.
24) **The correct answer is 30 mph.** 6.RP.A.3B $45 \div \frac{3}{2} = 45 \times \frac{2}{3} = 30$ miles per hour.
25) **The correct answer is 6.** 6.RP.A.3A The ratio is 3 : 600 or 1 : 200. For 1200 square feet: $1200 \div 200 = 6$ gallons.

Hi, Math Detective!

◇ You did such a great job! You finished 3 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

⋆ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ⋆

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie
Your Math Detective Helper

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

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

THIS BOOK INCLUDES:

- 3 Full-Length Printed Tests
- 2 Online Practice Tests
- Detailed Answer Explanations

MORE PRACTICE. GREATER RESULTS.

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

WHAT YOU'LL 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 with clear explanations and meaningful practice.

Test Confidence
Familiarize 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

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

VISIT TESTINAR.COM/MATH6

FOR MORE PRACTICE TESTS AND LEARNING RESOURCES

PRACTICE REGULARLY | STAY FOCUSED | SOLVE CONFIDENTLY | SUCCEED BRIGHTLY

PREPARE TODAY. SUCCEED TOMORROW!