

5

Wyoming WY TOPP

GRADE 6 MATH PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



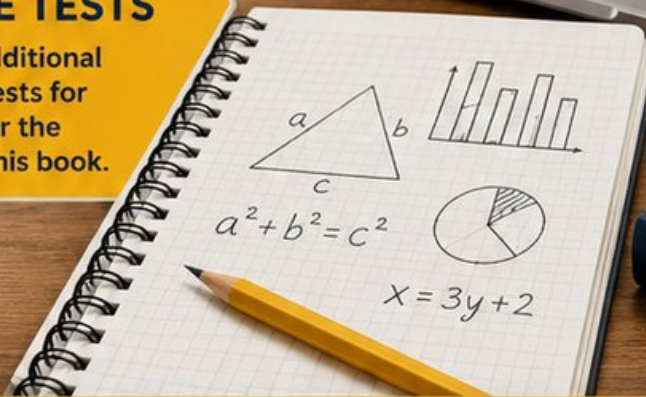
5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



+ 2 ONLINE TESTS

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



PREPARE • PRACTICE • SUCCEED



5 Wyoming WY-TOPP Grade 6 Math Practice Tests

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



Five 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 five 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 five-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 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	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 trapezoid with bases of 16 in and 12 in has a height of 9 in. What is the area?

A. 28 in^2

C. 144 in^2

B. 126 in^2

D. 252 in^2

2) Express the ratio “5 to 8” as a fraction in simplest form.

A. $\frac{8}{5}$

C. $\frac{5}{13}$

B. $\frac{8}{13}$

D. $\frac{5}{8}$

3) A table shows the ratio relationship between tennis balls and tennis rackets in a sports storage room:

Tennis Balls	Tennis Rackets
6	2
9	3
15	5

If this is graphed with tennis balls on the x-axis and tennis rackets on the y-axis, what is the equation of the proportional relationship?

A. $y = 3x$

C. $y = x + 4$

B. $y = \frac{1}{3}x$

D. $y = 6x$

4) Write $\frac{4}{5}$ as a decimal and then as a percent.

A. 0.45 and 45%

C. 0.04 and 4%

B. 1.25 and 125%

D. 0.8 and 80%



5) A model train is built at a scale of 1 : 50. If the model is 8 inches long, how many inches long is the real train?

A. 200

C. 400

B. 300

D. 500

6) Compute: $\frac{3}{5} \div \frac{1}{2}$

A. $\frac{3}{10}$

C. $1\frac{1}{6}$

B. $\frac{1}{6}$

D. $\frac{6}{5}$

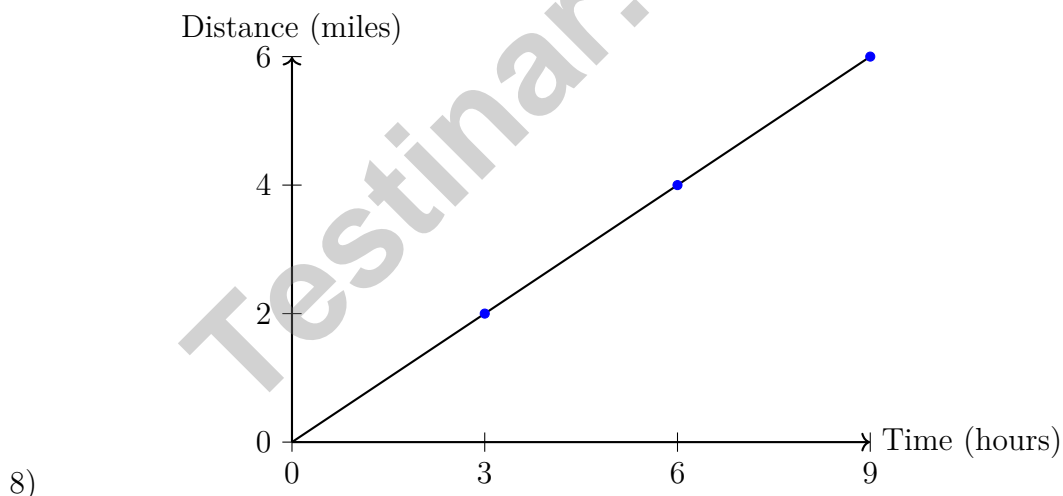
7) Which pair of ratios are equivalent?

A. 2 : 3 and 4 : 6

C. 2 : 3 and 4 : 9

B. 2 : 3 and 3 : 6

D. 2 : 3 and 6 : 8



Based on the graph, what is the unit rate in miles per hour?

A. $\frac{1}{2}$ mile per hour

C. 1 mile per hour

B. 2 miles per hour

D. $\frac{2}{3}$ miles per hour



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9) A grocery receipt shows:

Item	Price
Apples (5 lbs)	\$4.50
Cheese (3 lbs)	\$12.00
Bread (2 loaves)	\$5.00

Which item has the highest unit price?

- A. Apples C. Bread
 B. Cheese D. They are all equal

10) A swimming pool needs chlorine. The ratio of chlorine to water is 2 to 50. Complete the table:

Chlorine (oz)	Water (gal)
2	50
4	100
6	?

- A. 120 C. 180
 B. 150 D. 200

11) What is 8% of \$500?

- A. \$20 C. \$80
 B. \$40 D. \$100



1) A map uses a scale of $1 \text{ cm} = 5 \text{ km}$. What actual distance does 2 cm on the map represent?

- A. 10 km C. 3 km
 B. 7 km D. 15 km

2) The temperature is 12°C and drops 2°C each hour for 6 hours. What is the final temperature number?

3) Look at the box plot below. How many quartiles divide the data into equal parts?



A. One quartile C. Three quartiles
 B. Two quartiles D. Four quartiles

4) Two classes compare their test results using box plots. Class 1: $\text{IQR} = 10$. Class 2: $\text{IQR} = 25$. Which is most accurate?

- A. Class 1 has more students C. Class 1's middle 50% of scores are more tightly clustered
 B. Class 2 has higher test scores D. Class 1 did better overall



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- 5) A submarine is currently at a depth of -180 feet. It descends 50 more feet. What is its final depth?

- 6) A restaurant offers a choice of 3 soups, 4 main dishes, and 2 desserts. How many different meal combinations are possible if you choose one item from each category?

- A. 9 C. 24
 B. 12 D. 36

- 7) A fitness app records heart rates (bpm). The stem-and-leaf plot shows:

Stem	Leaf
6	8
7	2, 4, 6, 8
8	1, 3, 5, 7, 9
9	0, 2

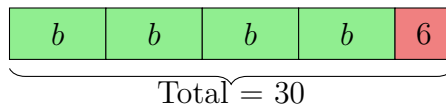
Which range contains the most recorded heart rates?

- A. 80 – 89 bpm C. 60 – 69 bpm
 B. 70 – 79 bpm D. 90 – 99 bpm



1) A student wrote this to solve $x + 8 = 15$: “I added 8 to both sides and got $x = 23$.”
What is the error?

- A. The student should divide by 8 D. The student should subtract 8
 B. The student should multiply by 8 instead
 C. The answer $x = 23$ is correct



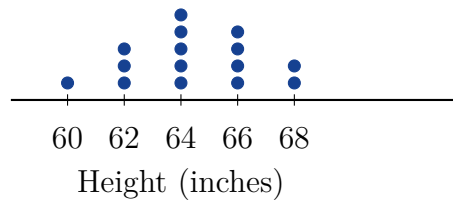
2)

The bar model represents $4b + 6 = 30$. Find b .

3) Write $\frac{3}{4}$ as a decimal.



- 4) A dot plot shows student heights (in inches). The frequencies are: 60 in: 1; 62 in: 3; 64 in: 5; 66 in: 4; 68 in: 2. Which statement is false?



- A. The mode is 64 inches D. More than half the students are 66 inches or taller
 B. The total number of students is 15 C. The median height is 64 inches
- 5) Ice must stay below 32°F . What is the greatest whole-number temperature below 32?

- 6) A student reads a box plot and says: “The median is 22, so 22 is in the middle of the data.” Which best describes the error?
- A. The median is not in the middle of the data. C. The median is always the average of two numbers.
 B. The median is a data value that separates the lower half from the upper half, not necessarily the center of the spread. D. The median cannot be determined from a box plot.



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

Practice Test 1 Answers and Explanations

- Choice B is correct.** **(6.G.H.1)** Area = $\frac{1}{2}(16 + 12) \times 9 = \frac{1}{2}(28)(9) = 126 \text{ in}^2$.
- Choice D is correct.** **(6.RP.A.1)** The phrase “5 to 8” means 5 goes in the numerator and 8 goes in the denominator. Since 5 and 8 have no common factor greater than 1, $\frac{5}{8}$ is simplest.
- Choice B is correct.** **(6.RP.A.3A)** The ratio is 6 balls:2 rackets, which simplifies to 3:1. So for every 3 tennis balls (x), there is 1 tennis racket (y). The constant of proportionality is $k = \frac{2}{6} = \frac{1}{3}$. Therefore, $y = \frac{1}{3}x$.
- Choice D is correct.** **(6.RP.A.3C)** $\frac{4}{5} = \frac{80}{100} = 0.8 = 80\%$.
- Choice C is correct.** **(6.RP.A.3)** At a scale of 1 : 50, the real object is 50 times larger. $8 \times 50 = 400$ inches.
- Choice D is correct.** **(6.NS.B.1)** $\frac{3}{5} \times 2 = \frac{6}{5}$.
- Choice A is correct.** **(6.RP.A.1)** Choice A works because 4 : 6 simplifies to 2 : 3 when both parts are divided by 2. The other pairs simplify to different ratios.
- Choice D is correct.** **(6.RP.A.3D)** From the graph, at 3 hours the distance is 2 miles. The unit rate is $2 \div 3 = \frac{2}{3}$ miles per hour.
- Choice B is correct.** **(6.RP.A.3B)** Apples: $\$4.50 \div 5 = \$0.90/\text{lb}$. Cheese: $\$12.00 \div 3 = \$4.00/\text{lb}$. Bread: $\$5.00 \div 2 = \$2.50/\text{loaf}$. Cheese has the highest unit price.
- Choice B is correct.** **(6.RP.A.3A)** The ratio is 2 : 50 or 1 : 25. For 6 oz of chlorine: $6 \times 25 = 150$ gallons.
- Choice B is correct.** **(6.RP.A.3D)** $8\% \times \$500 = 0.08 \times 500 = \40 .
- Choice A is correct.** **(6.RP.A.3D)** Divide: $45 \div 1000 = 0.045 \text{ km}$.
- The correct answer is 52.** **(6.SP.J.5D)** Mean = sum / count. $45 = \text{sum}/8 \Rightarrow \text{sum} = 360$. Sum of 7 known values = $38 + 40 + 42 + 44 + 46 + 48 + 50 = 308$. Eighth value = $360 - 308 = 52$.
- Choice C is correct.** **(6.NS.D.7D)** After taxes: $\$2000 \times (1 - 0.15) = \$2000 \times 0.85 = \$1700$. Savings: 20% of $\$1700 = 0.20 \times 1700 = \340 .
- Choice C is correct.** **(6.EE.G.9)** For $k = 5$, (1, 5) and (3, 15) both fit because $5/1 = 5$ and $15/3 = 5$. The point (5, 27) does not fit because $27/5 = 5.4$. Changing it to (5, 25) makes $25/5 = 5$.
- Choice C is correct.** **(6.EE.G.9)** Take-home: $100\% - 18\% = 82\%$ of $\$1500 = 0.82 \times 1500 = \1230 .
- Choice D is correct.** **(6.RP.A.3)** Use the scale: $8 \text{ cm} \times 2 \text{ m/cm} = 16 \text{ m}$.
- Choice A is correct.** **(6.NS.C.2, 6.NS.C.3)** $3,564 \div 12 = 297$. Check: $12 \times 297 = 3,564$.
- The correct answer is The box shows the middle 50% (from Q_1 to Q_3), and the whiskers extend to min and max.** **(6.RP.A.1)** B is correct: the box spans from Q_1 to Q_3 , the middle 50% of the data. E is correct: the whiskers extend out to the minimum and maximum. A is wrong because the median splits the data by count, not necessarily at the numerical center. C is wrong because IQR is $Q_3 - Q_1$, not max - min. D is wrong because Q_1 is at most equal to the median, not strictly below it (they can be equal when many values cluster at the lower end).
- Choice A is correct.** **(6.NS.C.3)** Work left to right: $9.6 - 2.7 = 6.9$, then $6.9 + 1.1 = 8.0$.
- Choice B is correct.** **(6.NS.C.4C, 6.NS.C.4A, 6.NS.C.4B)** Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24. Factors of 60: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60. Common factors: 1, 2, 3, 4, 6, 12. GCF is 12.
- The correct answer is 3.** **(6.NS.C.4C)** Number of green marbles = $\frac{1}{3} \times 9 = 3$.
- The correct answer is 71.5.** **(6.SP.J.4)** In order: 67, 68, 71, 72, 74, 75. With 6 values, the median is the average of the 3rd and 4th values: $(71 + 72)/2 = 71.5$.
- Choice A is correct.** **(6.NS.C.4C)** Distributive property: $10(3 + 9) = 10 \cdot 3 + 10 \cdot 9 = 30 + 90 = 120$. Choice A shows the expanded form.



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A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 5 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

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

Jay Daie

Your Math Mentor

PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



ACHIEVE SUCCESS

Consistent practice leads to greater results.

WHAT'S INSIDE?



5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



Realistic Questions

A variety of question types to strengthen problem-solving skills.



Answer Keys & Explanations

Detailed solutions to help students learn and improve.



Performance Tracking

Track progress and identify areas that need improvement.



Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



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