

8

Wyoming

WY TOPP

GRADE 7

MATH

PRACTICE TESTS



Standards Aligned
Problem Solving

For Comprehensive
Assessment Programs



8 PRINTED TESTS



2 ONLINE TESTS



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



BUILD CONFIDENCE



STRENGTHEN SKILLS



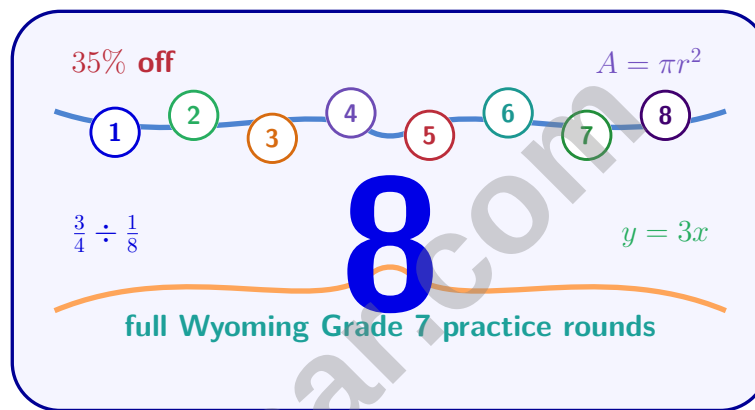
THINK SMARTER



BE TEST-READY

8 Wyoming WY TOPP Grade 7 Math Practice Tests

A strong review plan for Wyoming Grade 7 proportions, algebraic thinking, geometry, data comparison, and probability reasoning



Eight complete 40-question Grade 7 WY TOPP practice rounds with proportional relationships, percents, rational numbers, expressions, equations, geometry, statistics, probability, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Wyoming Grade 7 Problem Solver!

Eight focused rounds for sharper WY TOPP math thinking

This book gives you eight full Grade 7 WY TOPP math practice tests. Each round is built to help you notice structure, compare quantities, use proportional reasoning, handle rational numbers, and explain your thinking with care.

Your Wyoming Practice Promise

I will read every question carefully, choose a strategy that fits, write enough work to prove my answer, and use corrections as training for the next test.

Read

Model

Verify

How to Use This Book

An eight-session plan for confident Grade 7 review

1. **Warm up with the review pages.** Notice the big ideas before starting the tests.
2. **Complete one test at a time.** Treat each 40-question round like a real practice session.
3. **Show your reasoning.** Jot a proportion, equation, diagram, number line, or quick estimate when it helps.
4. **Correct actively.** Rework missed items before reading the explanation.
5. **Choose the next target.** After each test, name one skill and one habit to improve.

Wyoming review rhythm: Work a test, score it, study your misses, then come back ready for the next round with one clear goal.



What Is Inside?

Eight WY TOPP tests, 320 questions, and a complete review path

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Tests 7–8	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



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For more practice
& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	29
★ Practice Test 3	_____	43
★ Practice Test 4	_____	59
★ Practice Test 5	_____	72
★ Practice Test 6	_____	86
★ Practice Test 7	_____	100
★ Practice Test 8	_____	115
Practice Test Answer Keys	_____	129
Practice Test Answers and Explanations	_____	134

1) Which of the following shows that $0.9p = p - 0.1p$?

- ☐ A. Factoring: $p - 0.1p = p(1 - 0.1) = 0.9p$
- ☐ B. Distribution: $0.1(p - p) = 0$
- ☐ C. Combining fractions: $0.9 + 0.1 = 1$
- ☐ D. All operations are equivalent

2) A swimmer is currently 4 kg below their target weight. If they gain 0.5 kg per week, how many weeks w must pass to reach or exceed their target weight?

- ☐ A. $0.5w - 4 \geq 0$
- ☐ B. $0.5w \geq 4$
- ☐ C. $w \geq 8$
- ☐ D. $w \leq 8$

3) Which expression represents “the quotient of p and 4, plus 5”?

- ☐ A. $\frac{p}{4} + 5$
- ☐ B. $\frac{p+5}{4}$
- ☐ C. $4p + 5$
- ☐ D. $p + \frac{5}{4}$

4) A stock investment grows from \$5,000 to \$5,500 in one year. What is the percentage growth?

5) Combine: $(9g - 7) + (4g + 12) - (5g - 3)$

- ☐ A. $8g + 8$
- ☐ B. $8g - 2$
- ☐ C. $18g + 8$
- ☐ D. $8g + 20$



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6) Solve for x : $8(x + 1) = 72$

☐ A. $x = 8$

☐ C. $x = 10$

☐ B. $x = 9$

☐ D. $x = 11$

7) A store advertises “Buy at \$60, save \$12.” What percent discount is being offered?

☐ A. 12%

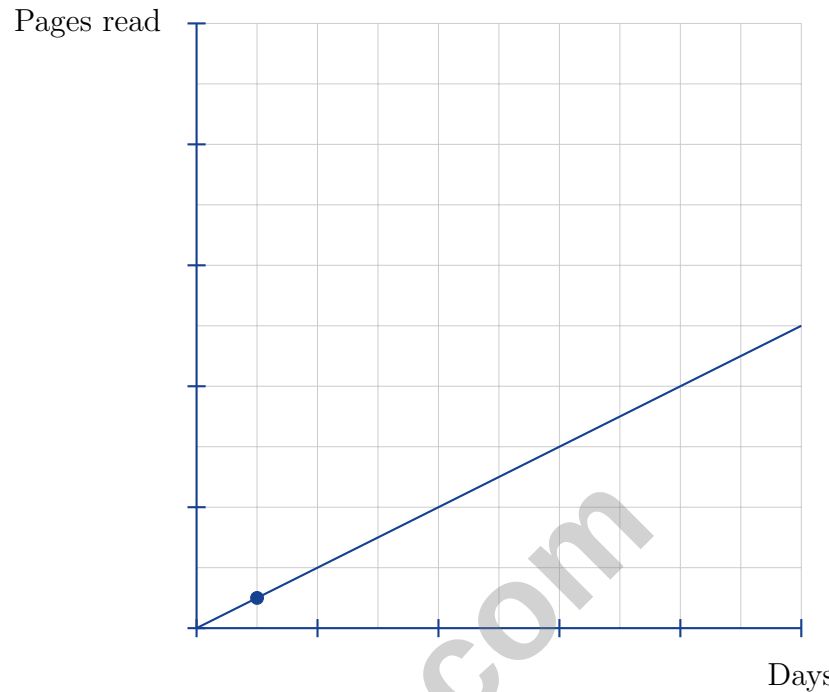
☐ C. 25%

☐ B. 20%

☐ D. 60%

8) Starting with \$600, an account earns 8% annual compound interest. How much interest is earned after 3 years?





9)

A book club reads at a constant rate shown in the graph. How many pages are read in 6 days?

☐ A. 0.5 pages☐ C. 5 pages☐ B. 10 pages☐ D. 3 pages10) What is $\frac{1}{4}$ as a decimal?☐ A. 0.14☐ C. 0.4☐ B. 0.25☐ D. 0.5

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- 1) On a number line, which point represents a number whose absolute value is 10?



- ☐ A. Only 10 ☐ C. Both 10 and -10
☐ B. Only -10 ☐ D. Only 0
- 2) A toy car is a scale model of a real car with a scale of $1 : 64$. If the toy car is 8 cm long, what is the length of the real car in meters?

- ☐ A. 0.512 m ☐ C. 5.12 m
☐ B. 2.56 m ☐ D. 51.2 m

$$3(2x + 5)$$



Expand and simplify

$$?$$

3)

What expression goes in the box marked ??

- ☐ A. $3 + 2x + 5$ ☐ C. $5x + 8$
☐ B. $6x + 15$ ☐ D. $2x + 5 + 3$

- 4) Simplify: $\frac{s^{14} \cdot s^3}{s^8}$

- ☐ A. s^{17} ☐ C. s^9
☐ B. s^{25} ☐ D. s^5



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5) Each burger costs \$4.50. How much will 6 burgers cost?

☐ A. \$24.00

☐ C. \$27.00

☐ B. \$25.50

☐ D. \$30.00

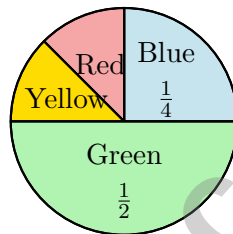
6) A dot plot shows the number of hours 10 students studied for a math test. The data is: 1, 1, 1, 2, 2, 2, 2, 3, 4, 5. What is the median?

☐ A. 1 hour

☐ C. 3 hours

☐ B. 2 hours

☐ D. 5 hours



7)

A spinner labeled with probability regions shows: $P(\text{blue}) = \frac{1}{4}$, $P(\text{green}) = \frac{1}{2}$. If red and yellow split the remaining space equally, what is $P(\text{red})$?

☐ A. $\frac{1}{8}$

☐ C. $\frac{1}{2}$

☐ B. $\frac{1}{4}$

☐ D. $\frac{3}{8}$

8) An ice cream shop offers 4 cone types (Sugar, Cake, Waffle, Chocolate) and 10 flavors. When ordering with cone and flavor, how many total combinations exist?

☐ A. 14

☐ C. 35

☐ B. 20

☐ D. 40



- 1) A teacher randomly selects two students without replacement from a class of 12 to give a presentation. If 7 students are prepared, what is the probability both selected are prepared?

☐ A. $\frac{49}{144}$

☐ B. $\frac{7}{12} \cdot \frac{6}{12}$

☐ C. $\frac{42}{120}$

☐ D. $\frac{7}{22}$

- 2) On a map where 2.5 cm represents 50 km, how many kilometers does 1 cm represent?

- 3) Two supplementary angles are in the ratio 7 : 8. What is the measure of the smaller angle?

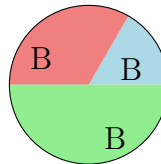
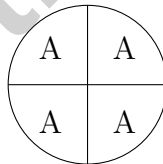
☐ A. 84°

☐ B. 90°

☐ C. 96°

☐ D. 92°

- 4) Which spinner represents a non-uniform probability model?



☐ A. Left spinner only

☐ B. Right spinner only

☐ C. Both spinners

☐ D. Neither spinner



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& answers

5) A stem-and-leaf plot has stems 5, 6, 7 with leaves:

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

What is the range of the data?

- ☐ A. 24 ☐ C. 26
☐ B. 25 ☐ D. 27

6) A survey shows that the probability a student likes pizza is $\frac{7}{8}$. How many students out of 80 would you expect to NOT like pizza?

- ☐ A. 7 ☐ C. 70
☐ B. 10 ☐ D. 73

7) An investor earns \$450 in simple interest from a \$3000 investment over 3 years. What is the annual interest rate?

- ☐ A. 4% ☐ C. 6%
☐ B. 7% ☐ D. 5%

8) What is $-2 - (-6)$?

- ☐ A. 4 ☐ C. -4
☐ B. -8 ☐ D. 8

9) Simplify: $-2m - 5m + 3n + n$

- ☐ A. $-7m + 4n$ ☐ C. $-7m + 3n$
☐ B. $-3m + 4n$ ☐ D. $7m + 4n$



Wyoming WY TOPP Grade 7 Practice Test Answer Keys**How to use this section with a Grade 7 student:**

1. check the answer first and circle any item that needs another look
2. retry the problem with fresh work before reading the explanation
3. write one short lesson learned from each missed or guessed item

A strong review routine turns every correction into a sharper plan for the next Wyoming WY TOPP practice test.



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& answers

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (7.EE.1-7.EE.2) Factoring out p from $p - 0.1p$ gives $p(1 - 0.1) = p(0.9) = 0.9p$. This is the key rewriting.
- 2) **Choice C is correct.** (7.EE.4b) The swimmer must make up a 4 kg deficit at 0.5 kg/week: $0.5w \geq 4$. Divide by 0.5: $w \geq 8$ weeks.
- 3) **Choice A is correct.** (7.EE.1-7.EE.2) Quotient of p and 4 is $\frac{p}{4}$. Plus 5 gives $\frac{p}{4} + 5$.
- 4) **The correct answer is 10%.** (7.RP.3) Percentage growth = $(\$5,500 - \$5,000) \div \$5,000 = \$500 \div \$5,000 = 0.10 = 10\%$.
- 5) **Choice A is correct.** (7.EE.1-7.EE.2) Combine: $(9g + 4g - 5g) + (-7 + 12 + 3) = 8g + 8$.
- 6) **Choice A is correct.** (7.EE.4a) Distribute: $8x + 8 = 72$. Subtract 8: $8x = 64$. Divide by 8: $x = 8$.
- 7) **Choice B is correct.** (7.EE.3-7.EE.4) Discount % = $\frac{\text{savings}}{\text{original}} \times 100 = \frac{12}{60} \times 100 = 20\%$.
- 8) **The correct answer is \$155.83.** (7.RP.3) Final balance: $600(1.08)^3 = 600 \times 1.2597 = 755.83$. Interest earned: $755.83 - 600 = 155.83$.
- 9) **Choice D is correct.** (7.RP.1-7.RP.3) From the unit-rate point $(1, 0.5)$, at $x = 6$, $y = 6 \times 0.5 = 3$ pages.
- 10) **Choice B is correct.** (7.NS.2d) Divide $1 \div 4 = 0.25$. This terminating decimal results because $4 = 2^2$.
- 11) **Choice C is correct.** (7.NS.1-7.NS.3) $0.000000125 = 1.25 \times 10^{-9}$. Move decimal 9 places right to reach first nonzero digit.
- 12) **Choice A is correct.** (7.EE.1-7.EE.2) Quotient rule: subtract exponents with the same base: $\frac{g^{14}}{g^6} = g^{14-6} = g^8$.
- 13) **Choice A is correct.** (7.EE.4a) Per night is \$85 and resort fee is \$20. Equation: $85n + 20 = 250$.
- 14) **The correct answer is 100.** (7.NS.1-7.NS.3) Perimeter = $4s = 40$, so $s = 10$ cm. Area = $s^2 = 10^2 = 100$ cm².
- 15) **Choice C is correct.** (7.EE.3-7.EE.4) Add 8: $6x = 36$. Divide by 6: $x = 6$.
- 16) **Choice C is correct.** (7.SP.1-7.SP.4) The coach is asking about variation, not center. MAD (average deviation from mean) and IQR (middle 50% spread) both measure variability. Median, mode, and min don't measure spread.
- 17) **Choice C is correct.** (7.SP.5-7.SP.8) Spinner: 5 outcomes. Coin: 2 outcomes. Total: $5 \times 2 = 10$ outcomes.
- 18) **The correct answer is B,D.** (7.NS.1-7.NS.3) B: $-33 + 33 = 0$ (opposites sum to zero). D: $-100 + 100 = 0$ (opposites sum to zero). A: $20 + (-10) = 10$ (not zero). C: $14 + (-7) = 7$ (not zero).
- 19) **Choice B is correct.** (7.NS.2) $-2\frac{1}{3} = -\frac{7}{3}$. So $-\frac{7}{3} \times (-3) = \frac{7 \times 3}{3} = 7$. Negative times negative is positive.
- 20) **Choice D is correct.** (7.RP.3) Commission = commission rate $\times$ sales. Since $8000 = 0.02 \times \text{sales}$, $\text{sales} = 8000 \div 0.02 = \$400,000$.
- 21) **Choice B is correct.** (7.G.4-7.G.6) Each trapezoid: $\frac{1}{2}(4 + 6) \times 3 = 15$ m². Two trapezoids: $15 \times 2 = 30$ m².
- 22) **Choice A is correct.** (7.SP.1-7.SP.4) January: leaves 1~8 span $8 - 1 = 7$. July: leaves 3~9 span $9 - 3 = 6$. January has a greater range of leaves, indicating greater variation within stem 7.
- 23) **Choice C is correct.** (7.RP.1-7.RP.3) Scale: 1 cm = 2 m. For 8 m: $\frac{1}{2} = \frac{x}{8}$, so $x = 4$ cm.
- 24) **Choice D is correct.** (7.G.4-7.G.6) $V = s^3 = 9^3 = 729$ m³.
- 25) **Choice A is correct.** (7.G.1-7.G.5) Check Triangle Inequality: $4 + 5 = 9 \not> 10$. The sum of the two smaller sides does not exceed the largest, so no triangle exists.
- 26) **Choice C is correct.** (7.G.4-7.G.6) Circle B: $d = 2 \times 3 = 6$ cm. Circle A (doubled radius = 6 cm): $d = 2 \times 6 = 12$ cm. So $12 = 2 \times 6$.
- 27) **Choice A is correct.** (7.G.1-7.G.5) An equilateral triangle has all sides and all angles equal. Since the angle sum is 180° and all three angles are equal, each angle is $180^\circ \div 3 = 60^\circ$.
- 28) **Choice C is correct.** (7.SP.1-7.SP.4) $\frac{8}{40} = \frac{x}{200}$. Reduce: $\frac{1}{5} = \frac{x}{200} \Rightarrow x = 40$.
- 29) **Choice D is correct.** (7.RP.1-7.RP.3) If $\frac{3}{4}$ patio uses $\frac{1}{2}$ ton, then 1 full patio uses $\frac{1/2}{3/4} = \frac{1}{2} \times \frac{4}{3} = \frac{2}{3}$ ton.
- 30) **Choice D is correct.** (7.RP.1-7.RP.3) Each ratio: $25/10 = 2.5$, $50/20 = 2.5$, $75/30 = 2.5$. The constant ratio is \$2.50 per ticket.



You Know More Than You Think

Hi, Skilled Learner!

◇ After working through Grade 7 practice, you now have more tools than you may realize: models, formulas, graphs, equations, and reasoning habits. ◇

★ **Remember this:** The next step is learning when to use each tool. That comes from practice, review, and the courage to try a method even when you are unsure. This version gave you 8 opportunities to rehearse test-day habits. ★

Tools You Can Use

- **Models:** Make relationships visible.
- **Equations:** Represent unknowns clearly.
- **Graphs:** Show change and location.
- **Formulas:** Organize measurement problems.

Grade 7 test-day tip: Before solving, name the tool you plan to use. That small choice makes your work more intentional.

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

Jay Daie

Your Skill-Building Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **8** full-length Math practice tests and **2** online tests to help Grade 7 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:

8 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 & Proportions
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Percents & Decimals
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ Algebraic Thinking
- ✓ And More!



2 ONLINE TESTS

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



2 EXTRA ONLINE TEST ACCESS CODE IS INSIDE THE BOOK!

Don't lose it—your extra practice and success start here!



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