

5

Wyoming

WY TOPP

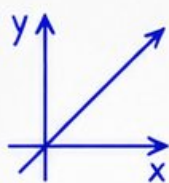
GRADE

7

MATH

PRACTICE TESTS

Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$



$$V = \pi r^2 h$$



5 PRINTED TESTS



2 ONLINE TESTS

USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.



Build
Confidence



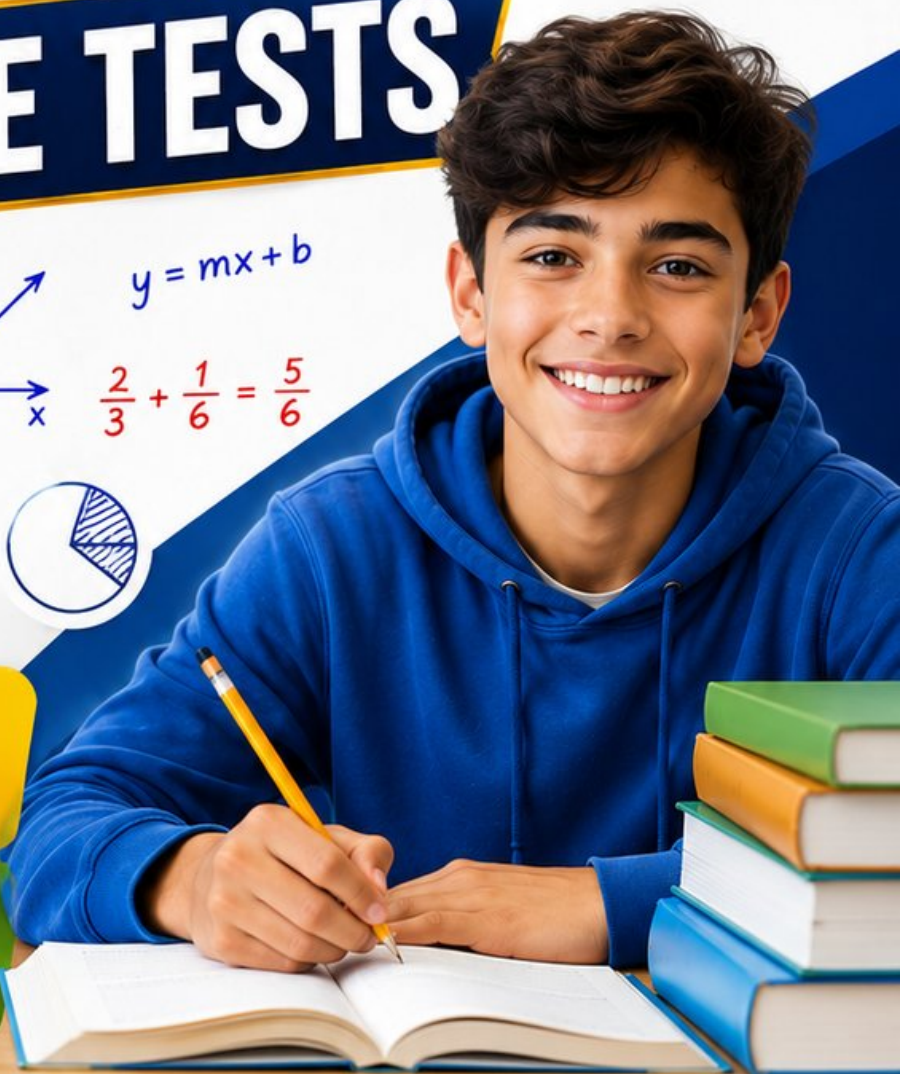
Strengthen
Math Skills



Detailed Answers
& Explanations



Improve Test
Performance



5 Wyoming WY TOPP Grade 7 Math Practice Tests

Test-Ready Practice with Grade 7 Review and Clear Answer Support



Five 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!

Five focused rounds for sharper WY TOPP math thinking

This book gives you five 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

A five-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?

Five WY TOPP tests, 200 questions, and a focused review path

Part	What You Will Practice
Tests 1–2	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 3–5	Expressions, equations, inequalities, scale drawings, geometry, data, probability, and multi-step problem solving.
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	_____	13
★ Practice Test 2	_____	27
★ Practice Test 3	_____	42
★ Practice Test 4	_____	56
★ Practice Test 5	_____	69
Practice Test Answer Keys	_____	82
Practice Test Answers and Explanations	_____	86

1)

Gross	Federal	Social	Net
\$2000	\$240	\$153	\$?

A pay stub shows gross income of \$2 000, federal tax withholding of \$240, and Social Security withholding of \$153. What is the net pay?

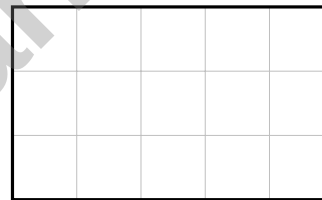
☐ A. \$1 607☐ C. \$1 847☐ B. \$1 760☐ D. \$1 900

2) A temperature drops from $5^{\circ}F$ to $-8^{\circ}F$. What is the temperature change (final minus initial)?

☐ A. $-13^{\circ}F$ ☐ C. $3^{\circ}F$ ☐ B. $-3^{\circ}F$ ☐ D. $13^{\circ}F$

Scale: 1 inch = 4 feet

3 inches

**Bedroom Floor Plan**

5 inches

3)

According to the floor plan, what is the actual area of the bedroom?

☐ A. 15 square feet☐ C. 120 square feet☐ B. 60 square feet☐ D. 240 square feet

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4) A company had 250 employees. They hired 20% more. How many new employees were hired?

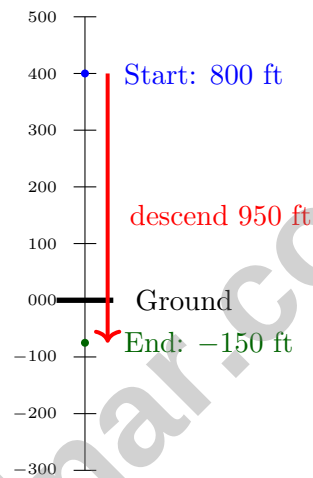
☐ A. 40

☐ C. 60

☐ B. 70

☐ D. 50

5) A helicopter is hovering at 800 feet above ground. It descends 950 feet. Is it now above or below ground, and by how much?



☐ A. 150 feet above ground

☐ C. 150 feet below ground

☐ B. 1750 feet above ground

☐ D. 1750 feet below ground

6) What angle corresponds to 50% of a circle?

☐ A. 90°

☐ C. 270°

☐ B. 180°

☐ D. 360°



- 7) A worker is paid \$18 per hour. What are the earnings for 40 hours?

- 8) Which equation represents a proportional relationship?

☐ A. $y = 3x + 5$

☐ C. $y = x - 2$

☐ B. $y = 2x + 1$

☐ D. $y = 7x$

- 9) Evaluate: $-\frac{5}{6} - \frac{1}{3}$

☐ A. $\frac{7}{6}$

☐ C. $-\frac{5}{6}$

☐ B. $-\frac{1}{2}$

☐ D. $-1\frac{1}{6}$

- 10) Use the sign-rule chart below to answer: Is $(-15) \div 3$ positive or negative?

Dividend sign	Divisor sign	Quotient sign
+	+	+
+	-	-
-	+	-
-	-	+

☐ A. Positive; $(-15) \div 3 = 5$

☐ C. Positive; $(-15) \div 3 = -5$

☐ B. Negative; $(-15) \div 3 = -5$

☐ D. Zero; quotient is undefined

- 11) A shirt costs \$45 before an 8.5% sales tax. What is the final price paid?



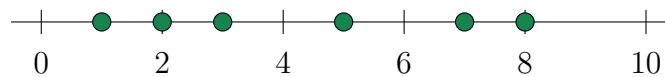
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& answers

- 1) A family's monthly budget is divided as follows: housing 35%, food 20%, transportation 15%, entertainment 10%, and other 20%. If the monthly income is \$3000, how much is allocated to food?

- ☐ A. \$300 ☐ C. \$600
☐ B. \$450 ☐ D. \$750

Sample A: Defects in 20 items



2)

Based on Sample A shown, if a factory makes 200 items, about how many defects are expected?

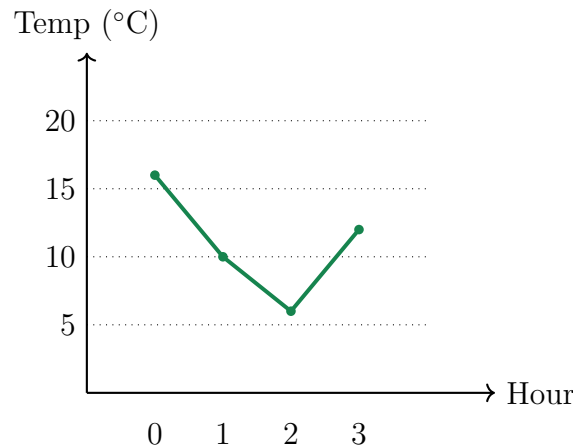
- ☐ A. 30 ☐ C. 50
☐ B. 40 ☐ D. 60

- 3) A clothing store buys jeans for \$55 and wants a 40% profit margin (markup). If they then apply an additional 8% sales tax, what do customers pay?

- ☐ A. \$88 ☐ C. \$83.07
☐ B. \$77 ☐ D. \$83.16



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& answers



4)

A thermometer records temperatures at four time points. From the graph, what is the change in temperature from hour 1 to hour 3?

☐ A. $+4^{\circ}\text{C}$ ☐ C. -1°C ☐ B. -4°C ☐ D. $+6^{\circ}\text{C}$

5) A runner tracks distance and heartbeats. For every $\frac{1}{5}$ mile run, the runner's heart beats 25 times. What is the constant of proportionality relating heartbeats to miles?

☐ A. $k = \frac{1}{5}$ beats per mile☐ C. $k = 0.2$ beats per mile☐ B. $k = 5$ beats per mile☐ D. $k = 125$ beats per mile

6) A bag contains only red and blue marbles in unknown proportions. A simulation draws a marble, records the color, and replaces it. After 200 draws, red appears 132 times and blue appears 68 times. Based on this simulation, what is the estimated probability of drawing a red marble?

☐ A. 0.34☐ C. 0.66☐ B. 0.50☐ D. 0.68

1) If 18% of a number is 36, what is the number?

☐ A. 150

☐ C. 200

☐ B. 180

☐ D. 250

2) Solve: $x + 7 < 12$

☐ A. $x < 5$

☐ C. $x \leq 5$

☐ B. $x > 5$

☐ D. $x < 19$

3) A streaming service charges a monthly subscription at a constant rate. For 3 months, the cost is \$36. What is the monthly charge?

☐ A. \$3

☐ C. \$36

☐ B. \$108

☐ D. \$12

4) A student's savings account grows by a percentage each month (not a fixed dollar amount). Month 1: \$100, Month 2: \$110, Month 3: \$121. The growth rate each month is approximately:

☐ A. 5%

☐ C. 15%

☐ B. 20%

☐ D. 10%

5) Which fraction converts to a terminating decimal?

☐ A. $\frac{1}{3}$

☐ C. $\frac{1}{6}$

☐ B. $\frac{2}{5}$

☐ D. $\frac{1}{7}$

6) Which of the following is NOT a perfect square?

☐ A. 81

☐ C. 121

☐ B. 72

☐ D. 169



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& answers

7) Solve for x : $6(x - 2) = 36$

8) A galaxy is 2.3×10^{19} miles away. Which statement best describes this distance?

- ☐ A. A distance on Earth's surface
- ☐ B. A distance within our solar system
- ☐ C. An extremely vast distance beyond our solar system
- ☐ D. A distance of about 2.3 million miles

9) Which expression is NOT equal to y^6 ?

- ☐ A. $y^3 \cdot y^3$
- ☐ B. $(y^2)^3$
- ☐ C. $\frac{y^{10}}{y^4}$
- ☐ D. $y^2 \cdot y^3$

10) A car rental company charges a base fee of \$45 and then \$0.25 per mile. Which equation represents the total cost C for m miles?

- ☐ A. $C = 45m + 0.25$
- ☐ B. $C = 0.25m + 45$
- ☐ C. $C = 45(m + 0.25)$
- ☐ D. $C = (45 + m)(0.25)$

11) Solve: $7x + 3 = 31$

- ☐ A. $x = 2$
- ☐ B. $x = 4$
- ☐ C. $x = 5$
- ☐ D. $x = 9$



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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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (7.RP.3) Net pay: Gross – taxes – deductions = $2000 - 240 - 153 = \$1\,607$.
- 2) **Choice A is correct.** (7.NS.1-7.NS.3) The change is final minus initial: $-8 - 5 = -13^\circ F$. The negative sign indicates the temperature decreased by 13 degrees.
- 3) **Choice D is correct.** (7.RP.1-7.RP.3) Actual dimensions: $5 \times 4 = 20$ feet; $3 \times 4 = 12$ feet. Area = $20 \times 12 = 240$ sq ft.
- 4) **Choice D is correct.** (7.RP.3) 20% of 250 is $0.20 \times 250 = 50$ new employees.
- 5) **Choice C is correct.** (7.NS.1b) Model descent as $800 + (-950) = -150$. The negative result means 150 feet below ground level.
- 6) **Choice B is correct.** (7.SP.1-7.SP.4) 50% of $360^\circ = 0.50 \times 360^\circ = 180^\circ$.
- 7) **The correct answer is \$720.** (7.RP.1-7.RP.3) Use $18 \times 40 = 720$ dollars.
- 8) **Choice D is correct.** (7.RP.1-7.RP.3) Proportional relationships have form $y = kx$ (passing through origin with no constant term). Only $y = 7x$ fits.
- 9) **Choice D is correct.** (7.NS.1-7.NS.3) Common denominator is 6: $-\frac{5}{6} - \frac{2}{6} = -\frac{7}{6} = -1\frac{1}{6}$.
- 10) **Choice B is correct.** (7.NS.1-7.NS.3) Using the chart: negative $\div$ positive = negative. So $(-15) \div 3 = -5$.
- 11) **The correct answer is \$48.83.** (7.RP.3) Tax = $0.085 \times 45 = \$3.825 \approx \3.83 . Final price = $45 + 3.83 = \$48.83$.
- 12) **Choice A is correct.** (7.NS.1-7.NS.3) Deduction: $-3 \times 6 = -18$ points.
- 13) **Choice C is correct.** (7.EE.1-7.EE.2) Substitute: $2(5) + 3(2) = 10 + 6 = 16$.
- 14) **Choice D is correct.** (7.RP.1-7.RP.3) Hourly wage = $\frac{60}{2\frac{1}{2}} = \frac{60}{5/2} = 60 \times \frac{2}{5} = 24$ dollars per hour.
- 15) **Choice C is correct.** (7.RP.1-7.RP.3) Proportional relationships have the form $y = kx$ (passing through the origin). Option C has a $+2$ term, so it does not pass through $(0,0)$ and is not proportional.
- 16) **Choice D is correct.** (7.RP.3) Using the proportion $\frac{60}{100} = \frac{x}{50}$, cross-multiply: $x = 30$ items.
- 17) **Choice C is correct.** (7.RP.3) Annual cost without discount = $\$75 \times 12 = \900 . With 12% discount: $\$900 - (12\% \times \$900) = \$900 - \$108 = \$792$.
- 18) **Choice C is correct.** (7.NS.2d) Divide $1 \div 2 = 0.5$. This is a terminating decimal since the denominator has only factors of 2 and 5.
- 19) **The correct answer is A,C.** (7.SP.1-7.SP.4) Sample 1: $\frac{36}{120} = 0.30$; Sample 2: $\frac{27}{90} = 0.30$. Both show 30%, so A is true. Equal proportions allow reliable population estimates (C is true). B and D is false (Sample 1 is larger at 120 vs 90).
- 20) **Choice A is correct.** (7.NS.1-7.NS.3) $70 - 64 = 6$ and $81 - 70 = 11$. Since $6 < 11$, the perfect square 64 is closest to 70.
- 21) **Choice B is correct.** (7.NS.1-7.NS.3) $8,900,000,000 = 8.9 \times 10^9$. Count 9 places from right of first digit to decimal point.
- 22) **Choice C is correct.** (7.SP.5-7.SP.8) Sum of known probabilities: $\frac{1}{6} + \frac{1}{3} + \frac{1}{4} = \frac{2}{12} + \frac{4}{12} + \frac{3}{12} = \frac{9}{12} = \frac{3}{4}$. Then $P(W) = 1 - \frac{3}{4} = \frac{3}{12} = \frac{1}{4}$.
- 23) **Choice B is correct.** (7.EE.1-7.EE.2) Distribute: $6x - 15 + 2x + 8$. Combine: $(6x + 2x) + (-15 + 8) = 8x - 7$.
- 24) **Choice A is correct.** (7.NS.2) $\frac{1}{3} \times \frac{1}{2} = \frac{1 \times 1}{3 \times 2} = \frac{1}{6}$.
- 25) **Choice B is correct.** (7.SP.3) Region Q's range is 12 inches (0–12) compared to Region P's 8 inches (1–9). Region Q also shows a larger gap from Q2 to Q3 ($9-4=5$) vs. Region P's ($7-5=2$), indicating greater variability.
- 26) **Choice C is correct.** (7.RP.3) Processing fee = $0.03 \times 1000 = \$30$.
- 27) **Choice C is correct.** (7.G.4-7.G.6) Rectangle: $8 \times 4 = 32$ sq units. Triangle: $\frac{1}{2} \times 8 \times 2 = 8$ sq units. Total: $32 + 8 = 40$ sq units.
- 28) **The correct answer is 8.33%.** (7.RP.3) Percent error = $\frac{|55000 - 60000|}{60000} \times 100\% = \frac{5000}{60000} \times 100\% \approx 8.33\%$.
- 29) **The correct answer is 14.465.** (7.NS.1-7.NS.3) Average current temperature: $\frac{12.5 + 13.2 + 12.8 + 14.1}{4} = \frac{52.6}{4} = 13.15^\circ C$. Increase of 10%: $0.10 \times 13.15 = 1.315^\circ C$. New temperature: $13.15 + 1.315 = 14.465^\circ C$.



Hi, Persistent Problem Solver!

◇ Some Grade 7 questions ask you to hold several ideas in your mind at once. That can feel hard, and that is exactly why practice matters. ◇

★ **Remember this:** You showed persistence by continuing through the set. That habit is powerful because difficult problems often open after one more good attempt. You practiced across 5 full Grade 7 practice tests, and that repeated effort matters. ★

Persistence Tools

- **Try a Smaller Case:** Use an easier number to see the pattern.
- **Draw It:** Make the situation visible.
- **Restate It:** Say the question in your own words.
- **Check One Step:** Fix the first unclear place.

Grade 7 test-day tip: When stuck, do not restart everything. Find the first step you trust, then rebuild from there.

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

Jay Daie

Your Persistence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **5** 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:

5 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answers & 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



Build Confidence

Practice regularly to feel prepared and test-ready.



Strengthen Math Skills

Develop key math concepts and problem solving abilities.



Improve Understanding

Learn with clear explanations and step-by-step solutions.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Boost Performance

Apply your knowledge and achieve your best score!

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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