

10

Wyoming WY TOPP

GRADE
7
MATH

PRACTICE TESTS

Standards Aligned Problem
Solving For Comprehensive
Assessment Programs



10 PRINTED TESTS

Realistic practice to build
confidence and mastery



2 ONLINE TESTS

Extra practice for
continued success



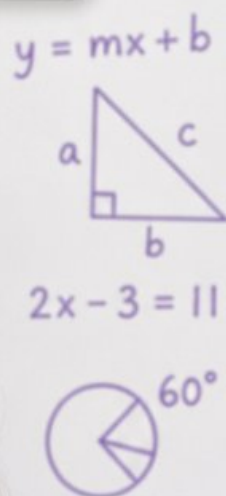
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step
solutions



FOCUSED & EFFECTIVE

Target key math skills
with purposeful practice



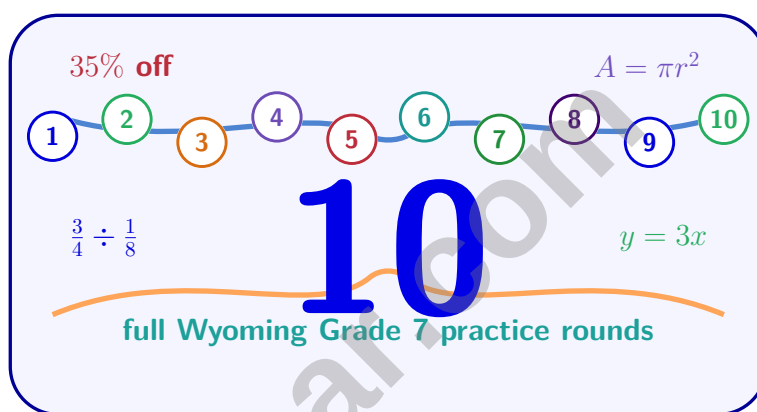
10 PRINTED TESTS
+2 ONLINE TESTS

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

PRACTICE ★ REVIEW ★ SUCCEED

10 Wyoming WY TOPP Grade 7 Math Practice Tests

Wyoming Grade 7 WY TOPP Practice for open-range review of proportional models, rational operations, equations, geometry, data, and probability



Ten 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!

Ten focused rounds for sharper Wyoming WY TOPP math thinking

This book gives you ten 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 ten-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?

Ten Wyoming WY TOPP tests, 400 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 7–9	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Test 10	A final Wyoming round to show growth across the whole book.
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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& answers

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- 1) A spinner is divided into 3 equal sections (Red, Blue, Yellow), and a fair coin is flipped. How many total outcomes are possible?
- ☐ A. 3 ☐ C. 6
☐ B. 5 ☐ D. 9
- 2) Which is the best estimate for $\sqrt{120}$?
- ☐ A. 10 ☐ C. 11
☐ B. 10.5 ☐ D. 12
- 3) A researcher measures a particle at 6.3×10^{-8} cm. How would this appear on a place-value chart?
- ☐ A. 0.000000063 cm ☐ C. 63,000,000 cm
☐ B. 0.0000000063 cm ☐ D. 630,000,000 cm
- 4) Which solution strategy is correct for $4x + 6 = 30$?
- ☐ A. Subtract 6, then divide by 4 ☐ C. Multiply by 4, then add 6
☐ B. Divide by 4, then subtract 6 ☐ D. Add 6, then divide by 4
- 5) Which measure describes how spread out data is?
- ☐ A. Mean ☐ C. Range
☐ B. Median ☐ D. Mode
- 6) A circle graph shows a restaurant's revenue: Food Sales 60%, Beverages 25%, Merchandise 10%, Other 5%. The Food Sales sector has a central angle of how many degrees?
- ☐ A. 216 degrees ☐ C. 60 degrees
☐ B. 150 degrees ☐ D. 240 degrees



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- 7) A circular clock face has circumference 88 cm. Using $\pi \approx \frac{22}{7}$, what is the radius of the clock?

- 8) A box contains cards numbered 5 through 14. A card is drawn at random. What is the probability of drawing a card with a number divisible by 3?

☐ A. $\frac{1}{5}$
☐ B. $\frac{3}{10}$

☐ C. $\frac{2}{5}$
☐ D. $\frac{1}{3}$

- 9) A bag contains letters spelling PROBABILITY. If one letter is drawn at random, what is the probability of drawing a B OR a Y?

☐ A. $\frac{2}{11}$
☐ B. $\frac{3}{11}$

☐ C. $\frac{4}{11}$
☐ D. $\frac{1}{11}$

- 10) An error analysis: A student calculated the experimental probability of an event as $\frac{\text{total trials}}{\text{favorable outcomes}}$ instead of $\frac{\text{favorable outcomes}}{\text{total trials}}$. If an event occurred 32 times in 200 trials, what error did the student make?

☐ A. Found 0.16 instead of 0.32.
☐ B. Found 6.25 instead of 0.16.

☐ C. Found 0.32 instead of 0.16.
☐ D. Made no error.

- 11) **Two Estimates: Which is Better?**

Estimate X: 55 vs. Actual 60 Estimate Y: 62 vs. Actual 60

☐ A. Estimate X is better
☐ B. Cannot compare

☐ C. Both equally good
☐ D. Estimate Y is better



12) Expand: $-6(2 - 3p)$

☐ A. $-12 + 18p$

☐ C. $12 + 18p$

☐ B. $-12 - 18p$

☐ D. $-12 - 3p$

13)

\$1200	?
Principal	Interest
Principal: \$1200 at 3% for 2 years	

What is the amount of interest earned?

☐ A. \$36

☐ C. \$60

☐ B. \$48

☐ D. \$72

14) Simplify: $3 - (-3)$

☐ A. 0

☐ C. -6

☐ B. 3

☐ D. 6

15) A photo is 8 inches wide and 6 inches tall. It is enlarged by a scale factor of 2.5. What are the new dimensions?

☐ A. 5.5 inches $\times$ 3.5 inches

☐ C. 16 inches $\times$ 12 inches

☐ B. 10 inches $\times$ 8 inches

☐ D. 20 inches $\times$ 15 inches



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1) If 1 Canadian dollar = 0.75 US dollars, how many Canadian dollars equal \$100 US?

☐ A. ≈ 150 CAD

☐ C. ≈ 75 CAD

☐ B. ≈ 100 CAD

☐ D. ≈ 133 CAD

2) The stem-and-leaf plot below shows test scores.

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

What is the minimum score?

☐ A. 42

☐ C. 40

☐ B. 41

☐ D. 48

3) A rectangular prism with volume 500 in^3 has a length of 10 inches and a width of 5 inches. What is the height?

☐ A. 100 in

☐ C. 10 in

☐ B. 50 in

☐ D. 5 in

4) Expand: $-5(4 - n)$

☐ A. $-20 + 5n$

☐ C. $20 + 5n$

☐ B. $-20 - 5n$

☐ D. $5n - 4$



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5) Identify the unlike terms in this expression: $4a + 3b + 2a + 5c$

☐ A. $4a$ and $2a$

☐ C. $4a$ and $3b$

☐ B. $3b$ and $5c$

☐ D. $2a$ and $5c$

6) Factor: $-4x - 12$

☐ A. $-4(x + 3)$

☐ C. $-4(x - 3)$

☐ B. $4(x + 3)$

☐ D. $-(4x + 12)$

7) A rectangular prism has length 8 m, width 5 m, and height 2 m. Find the surface area.

☐ A. 80 m^2

☐ C. 132 m^2

☐ B. 112 m^2

☐ D. 176 m^2

8) If a circle graph has a sector of 108° , what percent does it represent?

☐ A. 30%

☐ C. 45%

☐ B. 33%

☐ D. 60%

9) A rental company charges \$25 per day. If a customer has a budget of at most \$200, what is the maximum number of days they can rent?

☐ A. $25d \geq 200$

☐ C. $d > 8$

☐ B. $d \geq 8$

☐ D. $d \leq 8$

10) A restaurant manager posts a survey on Facebook asking customers for feedback. What bias is introduced by this sampling method?

☐ A. Voluntary response bias

☐ C. Systematic bias

☐ B. Stratified bias

☐ D. Measurement bias



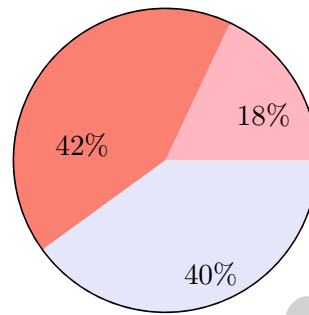
1) Which is the best estimate for 5.8×10^9 ?

☐ A. 5.8 billion

☐ C. 580 billion

☐ B. 58 billion

☐ D. 5.8 trillion



2)

The circle graph displays student participation in after-school activities. Light pink is sports (18%), salmon is clubs (42%), and lavender is arts (40%). If 600 students attend the school, how many participate in clubs?

☐ A. 108

☐ C. 240

☐ B. 180

☐ D. 252

3) Which expression simplifies to $8z - 1$?

☐ A. $(5z + 3) + (3z - 4)$

☐ C. $(10z - 5) - (2z + 4)$

☐ B. $(6z + 2) - (2z - 3)$

☐ D. $(7z + 3) + (z + 4)$

4) Simplify: $(b^3)^4$

☐ A. b^7

☐ C. b^{81}

☐ B. b^{12}

☐ D. b^{64}



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5) A data company offers cloud storage at \$9.99 per month with a one-time activation fee of \$29.99. Which expression shows the total cost C for n months?

☐ A. $C = 29.99n + 9.99$

☐ C. $C = 9.99 + 29.99n$

☐ B. $C = 9.99n + 29.99$

☐ D. $C = (9.99 + 29.99)n$

6) Which pair of equations is equivalent (have the same solution)?

☐ A. $2x + 6 = 16$ and $2x = 8$

☐ C. $5x + 3 = 28$ and $5x = 25$

☐ B. $3x - 4 = 8$ and $3x = 4$

☐ D. $4x - 2 = 10$ and $4x = 14$

7) Solve for x : $5(x + 3) = 2x + 36$

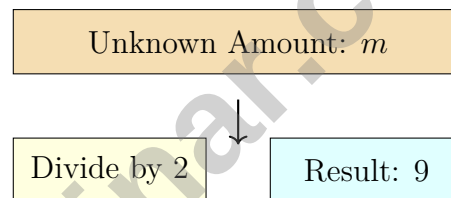
☐ A. $x = 3$

☐ C. $x = 7$

☐ B. $x = 5$

☐ D. $x = 9$

8)



What is the unknown amount m ?

☐ A. 4.5

☐ C. 18

☐ B. 11

☐ D. 36

9) A model airplane has a scale of 1 in : 8 ft. The model is 12 inches long. How long is the actual airplane?

☐ A. 48 ft

☐ C. 96 ft

☐ B. 64 ft

☐ D. 108 ft



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 C is correct.** (7.SP.5-7.SP.8) The spinner has 3 outcomes and the coin has 2 outcomes. Using the counting principle: $3 \times 2 = 6$ total outcomes.
- 2) **Choice C is correct.** (7.NS.1-7.NS.3) $10^2 = 100$ and $11^2 = 121$. Since 120 is very close to 121, $\sqrt{120} \approx 10.95$, which is closest to 11.
- 3) **Choice A is correct.** (7.NS.1-7.NS.3) 6.3×10^{-8} means move the decimal 8 places left: $6.3 \rightarrow 0.000000063$.
- 4) **Choice A is correct.** (7.EE.3-7.EE.4) Order of operations in reverse: undo the addition/subtraction first (-6), then undo multiplication/division ($\div 4$).
- 5) **Choice C is correct.** (7.SP.1-7.SP.4) Range (max $-$ min) measures how spread out data is. Mean, median, and mode measure center, not spread.
- 6) **Choice A is correct.** (7.SP.1-7.SP.4) Central angle = $\frac{60\%}{100\%} \times 360^\circ = 0.60 \times 360^\circ = 216^\circ$.
- 7) **The correct answer is 14.** (7.G.4-7.G.6) $C = 2\pi r \Rightarrow 88 = 2 \times \frac{22}{7} \times r \Rightarrow 88 = \frac{44}{7}r \Rightarrow r = 88 \times \frac{7}{44} = 14$ cm.
- 8) **Choice B is correct.** (7.SP.5-7.SP.8) Numbers: 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 (10 total). Divisible by 3: 6, 9, 12 (3 outcomes). $P = \frac{3}{10}$.
- 9) **Choice A is correct.** (7.SP.5-7.SP.8) PROBABILITY has 11 letters. B appears once and Y appears once. $P(B \text{ or } Y) = \frac{1}{11} + \frac{1}{11} = \frac{2}{11}$.
- 10) **Choice B is correct.** (7.SP.6) Correct probability: $\frac{32}{200} = 0.16$. Student's error: $\frac{200}{32} = 6.25$. The student inverted the fraction.
- 11) **Choice D is correct.** (7.RP.3) Estimate X: $\frac{|55-60|}{60} \times 100\% \approx 8.3\%$. Estimate Y: $\frac{|62-60|}{60} \times 100\% \approx 3.3\%$. Estimate Y has smaller error, making it the better estimate.
- 12) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute -6 : $-6(2) - 6(-3p) = -12 + 18p$.
- 13) **Choice D is correct.** (7.RP.3) $I = 1200 \times 0.03 \times 2 = \72 .
- 14) **Choice D is correct.** (7.NS.1-7.NS.3) $3 - (-3) = 3 + 3 = 6$.
- 15) **Choice D is correct.** (7.RP.1-7.RP.3) Multiply each dimension by the scale factor: $8 \times 2.5 = 20$ inches; $6 \times 2.5 = 15$ inches.
- 16) **Choice C is correct.** (7.RP.3) $\frac{40}{50} = \frac{4}{5} = 0.80 = 80\%$.
- 17) **Choice A is correct.** (7.NS.1b) Combine step-by-step: $-5 + 9 = 4$, then $4 + (-4) = 0$. The negatives and positives cancel out.
- 18) **Choice A is correct.** (7.EE.1) Combine: $(-3 - 4 + 2)p = -5p$. All terms are like terms with variable p .
- 19) **Choice A is correct.** (7.EE.1-7.EE.2) Factor out the GCF -3 : $-9m - 12 = -3(3m + 4)$.
- 20) **Choice B is correct.** (7.SP.1-7.SP.4) 28% of $5000 = 0.28 \times 5000 = 1400$ books.
- 21) **The correct answer is A,B.** (7.G.4-7.G.6) Choice A: Diameter $= 2r = 2 \times 6 = 12$ m is correct. Choice B: Area $= 3.14 \times 6^2 = 113.04$ m² is correct. C confuses circumference with area (37.68 m vs m²). D fails because square area is 36 m², much less than circle's 113.04 m².
- 22) **Choice A is correct.** (7.EE.4b) Subtract 3: $\frac{x}{2} > 6$. Multiply by 2: $x > 12$.
- 23) **Choice A is correct.** (7.NS.1-7.NS.3) Part B = Total $-$ Part A: $15 - 9 = 6$.
- 24) **Choice B is correct.** (7.NS.1-7.NS.3) $\frac{2}{9} \div \frac{4}{3} = \frac{2}{9} \times \frac{3}{4} = \frac{6}{36} = \frac{1}{6}$.
- 25) **Choice C is correct.** (7.NS.1-7.NS.3) Total cost: $12.50 \times 7.5 = 93.75$ dollars.
- 26) **Choice C is correct.** (7.NS.1-7.NS.3) Items sold $= 0.35 \times 800 = 280$ items. Remaining: $800 - 280 = 520$ items.
- 27) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute the negative: $4x - 3 - 2x - 5 = (4x - 2x) + (-3 - 5) = 2x - 8$.
- 28) **The correct answer is 384.** (7.G.4-7.G.6) Base area $= \frac{1}{2}(5 + 11) \times 6 = \frac{1}{2} \times 16 \times 6 = 48$ in². Volume $= 48 \times 8 = 384$ in³.
- 29) **Choice B is correct.** (7.EE.1-7.EE.2) When raising a power to a power, multiply the exponents: $(y^2)^6 = y^{2 \times 6} = y^{12}$.
- 30) **Choice A is correct.** (7.EE.4a) Daily cost is \$25 per day plus \$15 equipment fee. Equation: $25d + 15 = 115$.



Hi, Math Hero!

◇ This full-length book gave you ten complete Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. You showed up for Grade 7 practice again and again. That is what real growth looks like: steady effort, honest review, and a willingness to try. ◇

★ **Remember this:** A math hero is not someone who never misses a question. A math hero learns from the miss and comes back stronger. ★

Hero Habits

- **Courage:** You try problems that are not automatic.
- **Honesty:** You review what needs work.
- **Patience:** You let skills grow over time.
- **Pride:** You recognize the effort you gave.

Grade 7 test-day tip: Save one solved problem you are proud of. Looking back at progress helps motivation stay strong.

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

Jay Daie

Your Math Hero Guide

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 10 full-length Math practice tests and 2 extra 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:

10 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
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 EXTRA 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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BRIGHTLY

PRACTICE ★ REVIEW ★ SUCCEED