

4

Wyoming

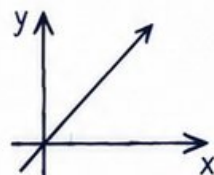
WY TOPP

GRADE
7
MATH

PRACTICE TESTS

Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs

$$y = mx + b$$



$$\frac{2x}{3} + \frac{x}{6} = 2$$



$$V = \frac{1}{3} \pi r^2 h$$

**4 PRINTED TESTS****2 ONLINE TESTS**

USE THESE TWO
**ADDITIONAL ONLINE
PRACTICE TESTS**

FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.



Build
Confidence



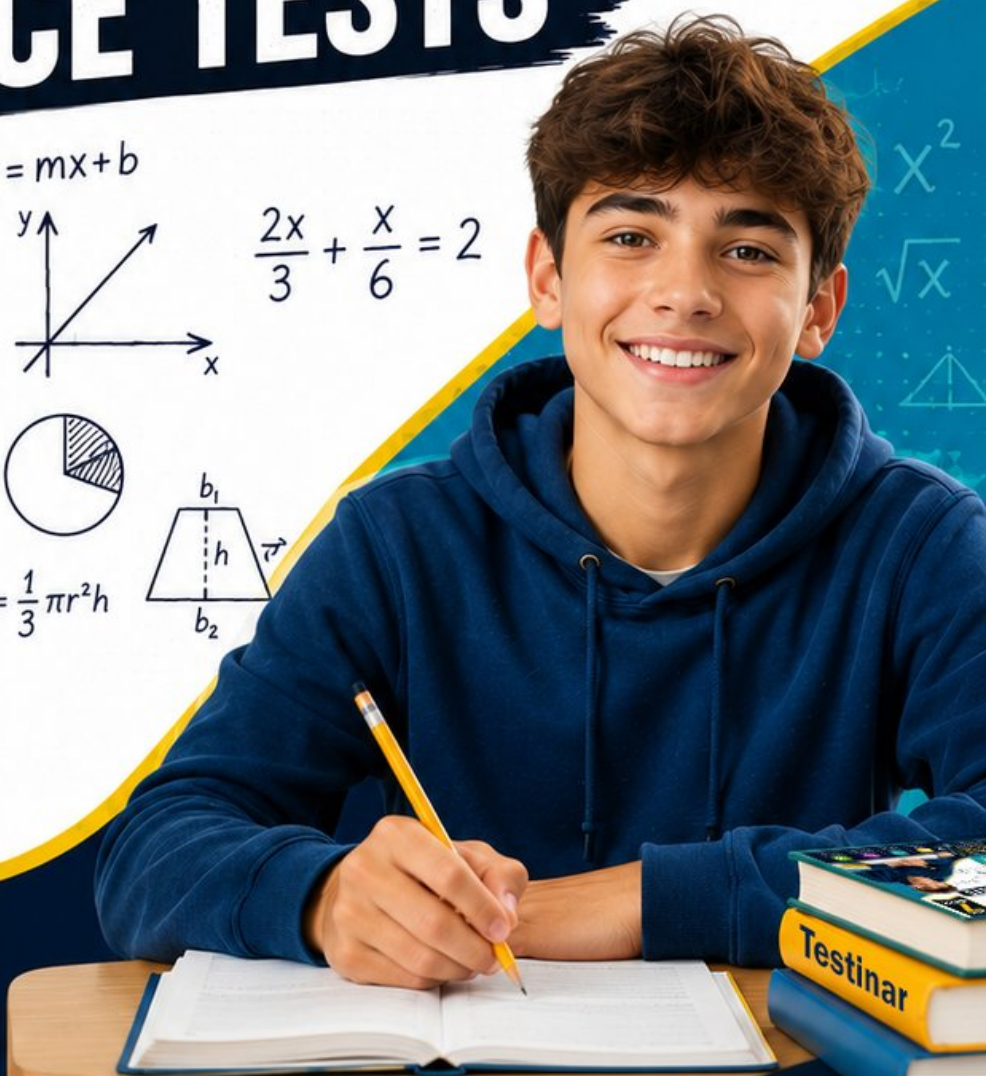
Strengthen
Math Skills



Detailed Answers
& Explanations



Improve Test
Performance



4 Wyoming WY TOPP Grade 7 Math Practice Tests

Focused WY TOPP Readiness with Keys and Clear Review Steps



Four 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!

Four focused rounds for sharper WY TOPP math thinking

This book gives you four 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 four-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?

Four WY TOPP tests, 160 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 3–4	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.

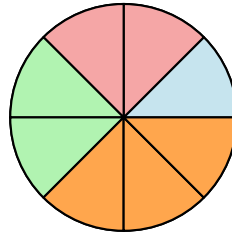
The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



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& answers

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1)

A spinner has 8 equal sections: 1 blue, 2 red, 2 green, and 3 yellow. What is the probability of landing on yellow?

- ☐ A. $\frac{1}{8}$
☐ B. $\frac{2}{8}$

- ☐ C. $\frac{3}{8}$
☐ D. $\frac{1}{2}$

2) A cylindrical flower pot has a diameter of 8 cm and a height of 10 cm. What is the volume? Use $\pi \approx 3.14$.

- ☐ A. 100.48 cm^3
☐ B. 251.2 cm^3

- ☐ C. 502.4 cm^3
☐ D. 1004.8 cm^3

3) A class splits into two study groups. Group X: median = 82, IQR = 8. Group Y: median = 82, IQR = 14. Which group has more consistent performance?

- ☐ A. Group X (smaller IQR)
☐ B. Group Y (larger IQR means more diversity)
☐ C. Both are equally consistent
☐ D. Cannot determine without range

4) A card is drawn from a deck with 5 cards (labeled 1 to 5), and a coin is flipped. If you want to find outcomes where the card is even and the coin is Heads, how many favorable outcomes are there?

- ☐ A. 1
☐ B. 2

- ☐ C. 3
☐ D. 5



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- 5) Two box plots compare the number of hours worked per week by employees at two stores. Store 1: $Q1 = 30$, Median = 35, $Q3 = 40$. Store 2: $Q1 = 25$, Median = 35, $Q3 = 45$. Which statement correctly compares the two stores?

- ☐ A. Store 2 has a larger spread in the upper half ☐ C. Both stores have the same work hour distribution
☐ B. Store 1 employees work more hours ☐ D. Store 1 has more variability overall

- 6) A temperature changes from -8 degrees to 8 degrees. What is the total change in temperature?

- 7) A student rolls a die twice. The first roll is a 2. What is the probability that the second roll is even?

- ☐ A. $\frac{1}{6}$ ☐ C. $\frac{1}{2}$
☐ B. $\frac{1}{3}$ ☐ D. $\frac{2}{3}$

- 8) A test for a new medicine was conducted on 1000 patients. 850 patients showed improvement. What is the experimental probability that a patient will show improvement?

- ☐ A. 0.15 ☐ C. 1.18
☐ B. 0.85 ☐ D. 1.76



9) A stem-and-leaf plot shows:

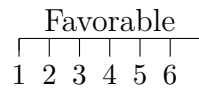
Stem	Leaves
22	0, 3, 7
23	1, 4, 6, 9
24	2, 5, 8

What is the sum of the minimum and maximum values?

- ☐ A. 470 ☐ C. 468
☐ B. 471 ☐ D. 473
- 10) A trapezoid-like composite shape is formed by a 6 m by 4 m rectangle with a triangle (6 m base, 3 m height) on top. What is the combined area?
- ☐ A. 18 m² ☐ C. 30 m²
☐ B. 27 m² ☐ D. 33 m²
- 11) A rectangular prism has a length of 20 cm. The width is half the length. The height is 10 cm. What is the volume?
- ☐ A. 1,200 cm³ ☐ C. 4,000 cm³
☐ B. 2,000 cm³ ☐ D. 2,400 cm³
- 12) A triangle has two angles of 45° and 65°. If one side is 10 cm, how many distinct triangles can be drawn?
- ☐ A. Infinitely many ☐ C. 1
☐ B. 0 ☐ D. 2



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1)

A number line shows a uniform model with outcomes $\{1, 2, 3, 4, 5, 6\}$. If the favorable region is $\{2, 3\}$, what is $P(\text{favorable})$?

☐ A. $\frac{1}{2}$

☐ C. $\frac{1}{3}$

☐ B. $\frac{1}{4}$

☐ D. $\frac{2}{5}$

2) What is $\sqrt{64}$?

☐ A. 6

☐ C. 9

☐ B. 8

☐ D. 7

3) A savings goal is \$1,200 for a laptop. If someone saves \$40 per month, how many months will it take to reach the goal?

4) Which expression is equivalent to $0.98x$?

☐ A. $x + 0.98x$

☐ C. $0.98 + x$

☐ B. $x - 0.02x$

☐ D. $0.02x - x$

5) What is $-7 \times (-3)$?

☐ A. -21

☐ C. 10

☐ B. -10

☐ D. 21



6) In a survey, 3 out of 5 people prefer brand A. If the population is 1000 people, how many would be expected to prefer brand A?

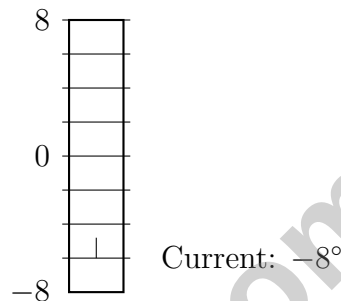
☐ A. 400 people

☐ C. 600 people

☐ B. 500 people

☐ D. 700 people

7) A thermometer shows -8 degrees. Which temperature is the opposite change?



☐ A. 0 degrees

☐ C. -16 degrees

☐ B. 4 degrees

☐ D. 8 degrees

8) Use a chip model to represent $-4 + (-2)$. How many chips of each type remain?

9) A coin is flipped 100 times. Heads appears 48 times. Based on this simulation, which is the estimated probability of flipping heads?

☐ A. 0.40

☐ C. 0.50

☐ B. 0.48

☐ D. 0.52



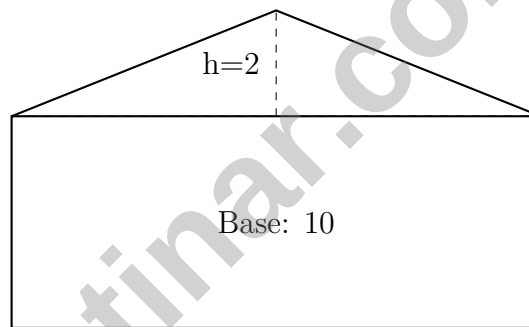
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- 1) A student borrows \$2500 for a bike at 9% simple interest per year. If the loan must be repaid in 18 months, how much interest will the student pay?

☐ A. \$225 ☐ C. \$450
☐ B. \$675 ☐ D. \$337.50

- 2) Two box plots compare the number of online orders per day for two e-commerce sites. Site X: $Q1 = 50$, Median = 75, $Q3 = 100$. Site Y: $Q1 = 40$, Median = 75, $Q3 = 110$. Which site has more consistent order volume?

☐ A. Site X (lower IQR: 50 vs. 70) ☐ C. Both sites are identical
☐ B. Site Y (higher $Q3$ means more orders) ☐ D. Site Y (lower $Q1$ means better baseline)



3)

A pennant shape is made of a rectangle (base 10 inches, height 4 inches) with a triangle on top (base 10 inches, height 2 inches). A student forgot that triangles use $\frac{1}{2}$ and calculated the triangle area as $10 \times 2 = 20 \text{ in}^2$. By how much did the student overestimate?

☐ A. 10 in^2 ☐ C. 30 in^2
☐ B. 20 in^2 ☐ D. 40 in^2



4) A rectangular prism has dimensions $3\text{ cm} \times 4\text{ cm} \times 6\text{ cm}$. Another prism has half the dimensions of the first. What is the volume of the smaller prism?

☐ A. 9 cm^3

☐ C. 36 cm^3

☐ B. 18 cm^3

☐ D. 72 cm^3

5) Two sides of a triangle are 6 cm and 14 cm . If the third side is a whole number, how many possible triangles can be drawn?

☐ A. 9

☐ C. 13

☐ B. 11

☐ D. Infinitely many

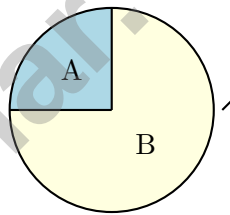
6) Which of the following is always true about a chord?

☐ A. It must pass through the center

☐ C. It is always shorter than the radius

☐ B. It has both endpoints on the circle

☐ D. It is parallel to a diameter



7)

A spinner with sections A and B is spun twice. What is the total number of outcomes in the sample space?

☐ A. 2

☐ C. 4

☐ B. 3

☐ D. 8



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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) Yellow sections: 3 out of 8. $P(\text{yellow}) = \frac{3}{8}$.
- 2) **Choice C is correct.** (7.G.4-7.G.6) Radius is half diameter: $r = 4$ cm. $V = \pi r^2 h \approx 3.14 \times 16 \times 10 = 502.4$ cm³.
- 3) **Choice A is correct.** (7.SP.1-7.SP.4) Same median (82) but Group X has IQR = 8 (middle 50% spans 8 units) while Group Y has IQR = 14 (wider middle spread). Group X is more consistent.
- 4) **Choice B is correct.** (7.SP.5-7.SP.8) Even cards: $\{2, 4\} = 2$ outcomes. Heads: 1 outcome. Favorable: $2H, 4H = 2$ outcomes.
- 5) **Choice A is correct.** (7.SP.3) Store 2's upper IQR ($45 - 35 = 10$) is larger than Store 1's ($40 - 35 = 5$). Both have the same median (35), but Store 2's upper half is more spread out.
- 6) **The correct answer is 16.** (7.NS.1-7.NS.3) The change is final minus initial: $8 - (-8) = 8 + 8 = 16$ degrees.
- 7) **Choice C is correct.** (7.SP.5-7.SP.8) Rolling the die again is independent of the first roll. Even numbers on a die: 2, 4, 6, so $P(\text{even}) = \frac{3}{6} = \frac{1}{2}$.
- 8) **Choice B is correct.** (7.SP.6) Experimental probability = $\frac{850}{1000} = 0.85$.
- 9) **Choice C is correct.** (7.SP.1-7.SP.4) Minimum value: 220 (stem 22, leaf 0). Maximum value: 248 (stem 24, leaf 8). Sum: $220 + 248 = 468$.
- 10) **Choice D is correct.** (7.G.4-7.G.6) Decompose into a rectangle and a triangle. Rectangle: $6 \times 4 = 24$ m². Triangle: $\frac{1}{2} \times 6 \times 3 = 9$ m². Add: $24 + 9 = 33$ m².
- 11) **Choice B is correct.** (7.G.4-7.G.6) Length = 20 cm. Width = $20/2 = 10$ cm. Height = 10 cm. Volume = $20 \times 10 \times 10 = 2,000$ cm³.
- 12) **Choice C is correct.** (7.G.1-7.G.5) The third angle is $180^\circ - 45^\circ - 65^\circ = 70^\circ$. When two angles and any side are given, the triangle is uniquely determined.
- 13) **Choice A is correct.** (7.G.4-7.G.6) The radius is half the diameter: $14 \div 2 = 7$ cm.
- 14) **Choice B is correct.** (7.G.1-7.G.5) Two sides and the included right angle are given: $AC = 4$ cm, $AB = 5$ cm, and angle $A = 90^\circ$ is between them. This is SAS (Side-Angle-Side) congruence.
- 15) **Choice B is correct.** (7.SP.5-7.SP.8) $\frac{3}{4} = 0.75$. Dividing $3 \div 4 = 0.75$.
- 16) **The correct answer is -1.** (7.NS.2) Total change: $(-1.2) \times 5 = -6$ degrees. Final temperature: $5 + (-6) = -1^\circ\text{C}$.
- 17) **Choice C is correct.** (7.SP.1-7.SP.4) $\frac{16}{100} = \frac{x}{8000}$. So $x = 0.16 \times 8000 = 1280$.
- 18) **Choice A is correct.** (7.NS.1-7.NS.3) Rewrite each subtraction as adding the opposite. A: $-2 - 5 = -2 + (-5) = -7$. ✓. B: $-1 - 5 = -6$. C: $-9 + 1 = -8$. D: $3 - (-4) = 3 + 4 = 7$. Only A equals -7.
- 19) **Choice C is correct.** (7.RP.1-7.RP.3) Divide actual length by scale: $26 \text{ m} \div 87 \approx 0.299 \text{ m} \approx 30 \text{ cm}$. The closest option is 3 cm (or 0.03 m, noting that 30 cm would overestimate).
- 20) **Choice C is correct.** (7.RP.3) The increase is $65 - 50 = 15$. Percent: $\frac{15}{50} = 0.30 = 30\%$.
- 21) **Choice C is correct.** (7.SP.1-7.SP.4) 25% of $360^\circ = 0.25 \times 360^\circ = 90^\circ$.
- 22) **The correct answer is B,C.** (7.RP.1-7.RP.3) Option B: cost = $1.50 \times$ pounds (proportional, of form $y = kx$). Option C: distance = speed $\times$ time (proportional). Option A is a general trend but not a strict proportional relationship. Option D: height does not scale proportionally with age (growth rates vary).
- 23) **Choice D is correct.** (7.RP.1-7.RP.3) Substitute into $y = -2x$: when $x = 1$, $y = -2(1) = -2$. Point $(1, -2)$ is on the line.
- 24) **Choice D is correct.** (7.RP.1-7.RP.3) $\frac{1/4}{2/3} = \frac{1}{4} \times \frac{3}{2} = \frac{3}{8}$, so the ratio is $3 : 8$.
- 25) **Choice D is correct.** (7.RP.1-7.RP.3) Volume equals rate times time. At 6 liters per minute, $V = 6t$.
- 26) **Choice D is correct.** (7.RP.1-7.RP.3) Unit rate = $18 \div 3 = \$6$ per hour.
- 27) **Choice D is correct.** (7.RP.3) The model shows part = 36 and whole = 60. Using part/whole = percent/100: $\frac{36}{60} = \frac{p}{100}$, cross-multiply to get $p = 60\%$.
- 28) **Choice A is correct.** (7.SP.5-7.SP.8) In a uniform random selection, each of the 28 students has equal probability: $P(\text{student selected}) = \frac{1}{28}$.



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Hi, Progress Maker!

◇ You have done more than complete a set of tests. You have rehearsed the habits that make Grade 7 math feel less surprising. ◇

★ **Remember this:** Progress is not always loud. Sometimes it looks like fewer careless errors, clearer work, better pacing, and more confidence when a problem is unfamiliar. You practiced across 4 full Grade 7 practice tests, and that repeated effort matters. ★

Signs of Growth

- **Clear Work:** Your steps are easier to follow.
- **Better Pacing:** You know when to move on and return.
- **Stronger Checks:** You catch mistakes earlier.
- **Calmer Thinking:** You know what to try next.

Grade 7 test-day tip: Keep one short list of mistakes you often make, then check that list before each practice session.

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

Jay Daie

Your Growth Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **4** 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:

4 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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