

3

Wyoming

WY TOPP

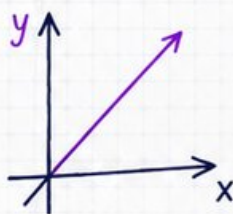
GRADE

7

MATH

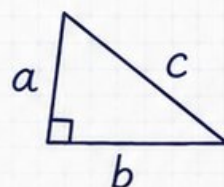
PRACTICE TESTS

- ✓ Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3}x - \frac{4}{5} = \frac{1}{2}$$



$$3(x - 2) = 2x + 5$$



3 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



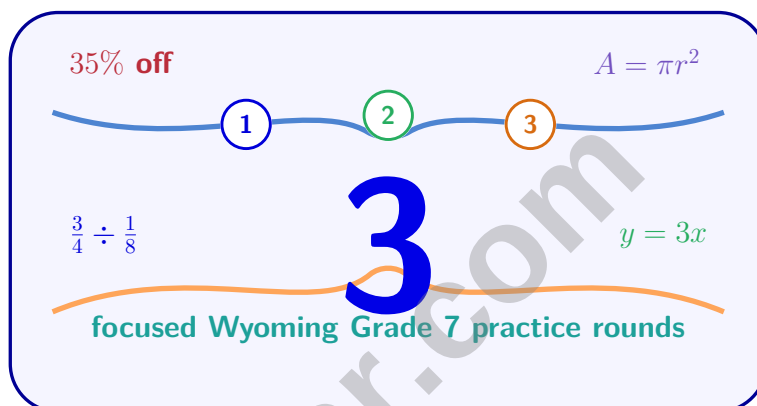
Detailed Answers
& Explanations



Improve Test
Performance

3 Wyoming WY TOPP Grade 7 Math Practice Tests

Wyoming Math Practice Rounds with Review and Clear Solutions



Three 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!

Three focused rounds for sharper WY TOPP math thinking

This book gives you three 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 three-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?

Three WY TOPP tests, 120 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.
Test 3	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) In a science experiment, a substance's temperature starts at 25°C and decreases at a rate of 1.12°C per minute. What is the temperature after 10 minutes?

☐ A. 13.8°C ☐ C. 15°C
☐ B. 12°C ☐ D. 26.2°C

- 2) An athlete's predicted marathon time was 3.5 hours, but the actual time was 3.2 hours. What is the percent error?

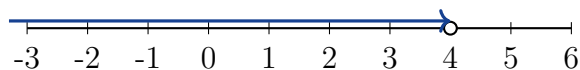
☐ A. 9.4% ☐ C. 8.6%
☐ B. 10.9% ☐ D. 91.4%

- 3) A mountain climber is at 200 meters above sea level. She descends 350 meters. At what elevation is she now? Write your answer as an integer.

- 4) Expand and simplify: $2(4p - 3) - 1$

☐ A. $6p - 7$ ☐ C. $8p - 7$
☐ B. $8p - 3$ ☐ D. $8p - 6$

- 5) Solve $3x - 5 < 7$ and identify which number line represents the solution.



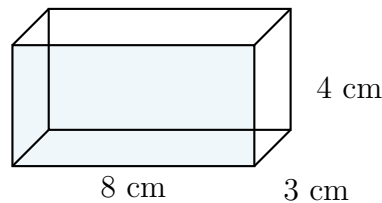
☐ A. Open circle at 4 pointing left ☐ C. Closed circle at 4 pointing left
☐ B. Open circle at 4 pointing right ☐ D. Closed circle at 4 pointing right



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- 6) A school fundraiser invests \$5000 to earn money for field trips. At 3.6% simple interest per year, how long (in months) will it take to earn \$180?

- ☐ A. 6 months
☐ B. 9 months
☐ C. 12 months
☐ D. 18 months



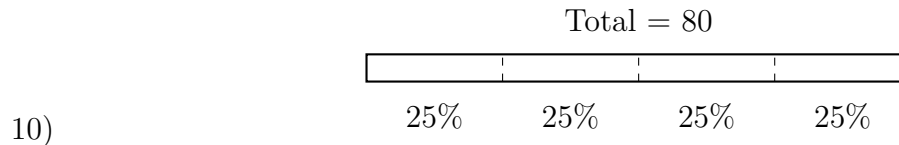
7)

A rectangular prism has dimensions $8\text{ cm} \times 4\text{ cm} \times 3\text{ cm}$. One student mistakenly calculates the surface area as $8 + 4 + 3 = 15$, then multiplies by 2 to get 30 cm^2 . What is the correct surface area?

- ☐ A. 30 cm^2
☐ B. 96 cm^2
☐ C. 136 cm^2
☐ D. 192 cm^2
- 8) To design a simulation for the probability that a student passes a course (estimated at 75%), which spinner is most appropriate?
- ☐ A. A spinner with 2 equal sections
☐ B. A spinner with 3 equal sections, one shaded
☐ C. A spinner with 4 equal sections, 3 shaded
☐ D. A spinner with 4 equal sections, 1 shaded
- 9) A dollhouse is built to a scale of 1 : 12 (model to real). If an actual bedroom is 12 feet long, 10 feet wide, and 8 feet tall, what is the volume of the dollhouse bedroom in cubic feet?

- ☐ A. 960×12 cubic feet
☐ B. $\frac{960}{12}$ cubic feet
☐ C. 960 cubic feet
☐ D. $\frac{960}{1728}$ cubic feet





The bar model shows a number divided into equal parts. What is 25% of 80?

- ☐ A. 15 ☐ C. 25
☐ B. 30 ☐ D. 20
- 11) A coat priced at \$150 has a $\frac{1}{3}$ discount applied. What is the final price?
- ☐ A. \$200 ☐ C. \$50
☐ B. \$125 ☐ D. \$100
- 12) The temperature was -7°C in the morning. It rose by 15°C during the day. What was the temperature after the rise?
- ☐ A. -22°C ☐ C. 8°C
☐ B. -8°C ☐ D. 22°C
- 13) Simplify: $-2n - 3n + n$
- ☐ A. $-4n$ ☐ C. $4n$
☐ B. $-6n$ ☐ D. $-2n$
- 14) A cyclist travels $\frac{5}{6}$ mile in $\frac{1}{4}$ hour. Find the cyclist's speed in miles per hour.



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1) If y is proportional to x and $y = 20$ when $x = 4$, what is the constant of proportionality?

☐ A. $k = 80$

☐ C. $k = 20$

☐ B. $k = 4$

☐ D. $k = 5$

2) A scale drawing of a rectangular garden is 6 cm long at a scale of 1 cm : 0.5 m. If the scale is changed to 1 cm : 1 m, what will be the new length?

☐ A. 3 cm

☐ C. 12 cm

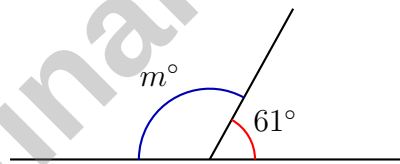
☐ B. 6 cm

☐ D. 24 cm

3) A cone is sliced horizontally (parallel to its circular base). What is the shape of the cross-section?

☐ A. Rectangle☐ C. Circle☐ B. Triangle☐ D. Ellipse

4)



A ray extends upward from a point on a horizontal line, forming a linear pair with angles 61° and m . Find m .

☐ A. 61°

☐ C. 119°

☐ B. 90°

☐ D. 241°



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5) A line segment has endpoints at $(1, 2)$ and $(4, 2)$. After a reflection over the x -axis, what is the length of the reflected segment?

☐ A. 3 units

☐ C. $\sqrt{13}$ units

☐ B. 4 units

☐ D. 6 units

6) Two similar figures have corresponding sides in the ratio $5 : 8$. If the smaller figure has an area of 50 square inches, what is the area of the larger figure?

☐ A. 80 square inches

☐ C. 128 square inches

☐ B. 100 square inches

☐ D. 200 square inches

7) A cylindrical tank has a total surface area of 703.36 m^2 and a radius of 8 m. What is the height? Use $\pi \approx 3.14$.

☐ A. 6 m

☐ C. 10 m

☐ B. 8 m

☐ D. 12 m

8) A pair of shoes is on sale for \$60 after a 25% discount. What was the original price of the shoes?

9) A coach compared jump heights (in inches) of two volleyball teams:

Team	Mean	Median	MAD
Team A	28	28	2.5
Team B	26	26	4.8

Which team has both a higher center and more consistency?

☐ A. Team A

☐ C. Both are identical

☐ B. Team B

☐ D. The data is insufficient



1) A car's odometer reads 12,450 miles at the start of a trip. After the trip, it reads 12,718.5 miles. How far did the car travel?

- ☐ A. 268.5 miles ☐ C. 270 miles
☐ B. 267.5 miles ☐ D. 12,450 miles

2) A jar contains colored beads: 12 red, 8 blue, 5 green. A bead is drawn. Which is closest to $P(\text{blue})$?

- ☐ A. $\frac{1}{25}$ ☐ C. $\frac{1}{3}$
☐ B. $\frac{8}{25}$ ☐ D. $\frac{2}{5}$

3) A freelance designer charges clients a 15% design fee on top of materials costs. If materials cost \$200, what is the total cost to the client?

- ☐ A. \$215 ☐ C. \$245
☐ B. \$260 ☐ D. \$230

4)

Monthly Budget Category	Percent of Income
Housing	40%
Food	15%
Transportation	10%
Savings	20%
Entertainment	15%

If your monthly income is \$3 000, how much should you budget for housing?

- ☐ A. \$900 ☐ C. \$1 200
☐ B. \$1 000 ☐ D. \$1 500



5) A \$1,000 investment at $r\%$ annual compound interest triples after 2 years. Which equation gives the interest rate?

☐ A. $1000(1 + r) = 3000$

☐ C. $1000 + 2r = 3000$

☐ B. $1000(1 + r)^2 = 3000$

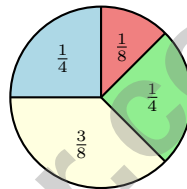
☐ D. $1000 \times r^2 = 3000$

6) An online retailer increases prices by 10% one month, then by 5% the next month. A customer claims this is the same as a single 15% increase. Is the customer correct?

☐ A. Yes, successive percent increases add.

☐ C. No; $1.10 \times 1.05 = 1.155$, so the increase is 15.5%.

☐ B. No; the true increase is 14.5%.

☐ D. They are exactly the same.


7)

A spinner has sections with the probabilities shown. If the spinner is spun 400 times, approximately how many times should you expect to land on a section with probability $\frac{3}{8}$?

☐ A. 50 times

☐ C. 150 times

☐ B. 100 times

☐ D. 200 times

8) A phone case costs \$18 before a 6% sales tax is applied. What is the total cost?

☐ A. \$18.06

☐ C. \$16.92

☐ B. \$24

☐ D. \$19.08


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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 A is correct.** (7.NS.1-7.NS.3) Temperature change = $-1.12 \times 10 = -11.2^\circ\text{C}$. Final temperature = $25 - 11.2 = 13.8^\circ\text{C}$.
- 2) **Choice A is correct.** (7.RP.3) Percent error = $\frac{|3.5-3.2|}{3.2} \times 100\% = \frac{0.3}{3.2} \times 100\% \approx 9.4\%$.
- 3) **The correct answer is -150.** (7.NS.1-7.NS.3) The elevation change is $200 - 350 = -150$. She is now 150 meters below sea level.
- 4) **Choice C is correct.** (7.EE.1-7.EE.2) Expand: $2(4p) - 2(3) - 1 = 8p - 6 - 1 = 8p - 7$.
- 5) **Choice A is correct.** (7.EE.4b) Solving: $3x - 5 < 7$ gives $3x < 12$, so $x < 4$. An open circle at 4 with a left arrow shows all values less than 4.
- 6) **Choice C is correct.** (7.RP.3) $180 = 5000 \times 0.036 \times t \Rightarrow 180 = 180t \Rightarrow t = 1$ year. Convert to months: $1 \times 12 = 12$ months.
- 7) **Choice C is correct.** (7.G.4-7.G.6) The correct formula: $SA = 2(8 \cdot 4 + 8 \cdot 3 + 4 \cdot 3) = 2(32 + 24 + 12) = 2(68) = 136 \text{ cm}^2$. The student added dimensions instead of multiplying them.
- 8) **Choice C is correct.** (7.SP.5-7.SP.8) $75\% = \frac{3}{4}$. A spinner with 4 equal sections where 3 are shaded represents this probability.
- 9) **Choice D is correct.** (7.RP.1-7.RP.3) Linear scale is 1 : 12. Model dimensions: 1 ft, $\frac{10}{12}$ ft, $\frac{8}{12}$ ft. Volume scales by $(1/12)^3 = 1/1728$. Real volume is $12 \times 10 \times 8 = 960 \text{ cu ft}$. Model volume = $960 \div 1728 = \frac{960}{1728} \text{ cu ft}$.
- 10) **Choice D is correct.** (7.RP.3) 25% of 80 is $\frac{1}{4} \times 80 = 20$.
- 11) **Choice D is correct.** (7.RP.3) Discount = $\frac{1}{3} \times 150 = \50 . Final price = $150 - 50 = \$100$.
- 12) **Choice C is correct.** (7.NS.1b) The temperature change is modeled by $-7 + 15 = 8$. A rise of 15° means we add 15 to the initial temperature of -7° .
- 13) **Choice A is correct.** (7.EE.1) Combine: $(-2 - 3 + 1)n = -4n$.
- 14) **The correct answer is 10/3 mph.** (7.RP.1-7.RP.3) Unit rate = $\frac{5/6}{1/4} = \frac{5}{6} \times 4 = \frac{20}{6} = \frac{10}{3} = 3\frac{1}{3} \text{ mph}$.
- 15) **Choice A is correct.** (7.EE.1-7.EE.2) The GCF of 6 and 18 is 6. $6x + 18 = 6(x + 3)$.
- 16) **Choice B is correct.** (7.EE.4b) Divide both sides by 4: $x < \frac{20}{4} = 5$.
- 17) **Choice A is correct.** (7.SP.1-7.SP.4) This sample only reaches people who (1) already watch sports, and (2) are motivated enough to call in. This excludes the majority of households and creates severe self-selection bias and voluntary response bias.
- 18) **The correct answer is C,D.** (7.SP.1-7.SP.4) The total amounts are not given, so A and B cannot be determined from the percentages alone. Region Y has 50% indoor and 50% outdoor use, so C is correct. Region Y's outdoor percentage (50%) is higher than Region X's outdoor percentage (40%), so D is correct.
- 19) **The correct answer is 40.** (7.RP.1-7.RP.3) Substitute: $y = 5(8) = 40$.
- 20) **Choice B is correct.** (7.NS.1-7.NS.3) $-5 + 8 = 3$; then $3 - 3 = 0$.
- 21) **Choice B is correct.** (7.NS.1-7.NS.3) A descent of 240 m is -240 . Rate: $(-240) \div 8 = -30 \text{ m/hr}$. The negative sign indicates downward motion.
- 22) **Choice A is correct.** (7.EE.1-7.EE.2) Base cost is \$20, plus \$0.15 for each of t messages: $20 + 0.15t$.
- 23) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute the negative: $15h - 10 - 8h + 4 = (15h - 8h) + (-10 + 4) = 7h - 6$. Distractors: B is from not distributing the negative to -4 ; C is from adding coefficients; D is from canceling terms incorrectly.
- 24) **Choice C is correct.** (7.EE.4a) Distribute: $3x - 6 = x + 2$. Subtract x : $2x - 6 = 2$. Add 6: $2x = 8$. Divide by 2: $x = 4$.
- 25) **Choice A is correct.** (7.G.4-7.G.6) $C = \pi d = \frac{22}{7} \times 12 = \frac{264}{7} \approx 37.7 \text{ cm}$.
- 26) **Choice C is correct.** (7.G.4-7.G.6) Area of full circle: $A = 3.14 \times 8^2 = 3.14 \times 64 = 200.96 \text{ cm}^2$. Quarter: $\frac{200.96}{4} = 50.24 \text{ cm}^2$.
- 27) **Choice D is correct.** (7.SP.1-7.SP.4) Student A: Stem 6 (2 leaves) + Stem 7 (3 leaves) + Stem 8 (2 leaves) = 7 scores. Student B: Stem 6 (1 leaf) + Stem 7 (2 leaves) + Stem 8 (3 leaves) = 6 scores. Total = $7 + 6 = 13$ scores.



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Hi, Grade 7 Math Star!

◇ You finished this practice set with real effort. Grade 7 math asks you to connect ideas, explain your thinking, and stay steady through multi-step problems. ◇

★ **Remember this:** Every page you completed helped build stronger habits: reading carefully, choosing a method, showing work, and checking whether the answer makes sense. You practiced across 3 full Grade 7 practice tests, and that repeated effort matters. ★

What You Built

- **Focus:** You stayed with challenging questions.
- **Accuracy:** You learned to slow down when details matter.
- **Reasoning:** You practiced explaining why a method works.
- **Readiness:** You are more prepared than when you started.

Grade 7 test-day tip: Before test day, review the questions that made you pause. Those are the best teachers.

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

Jay Daie

Your Grade 7 Math Friend

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **3** 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:

3 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.



Detailed Answers & Explanations

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



Improve Test 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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