

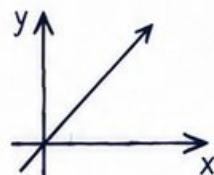
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Florida
FASTGRADE
7
MATH

PRACTICE TESTS

Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs

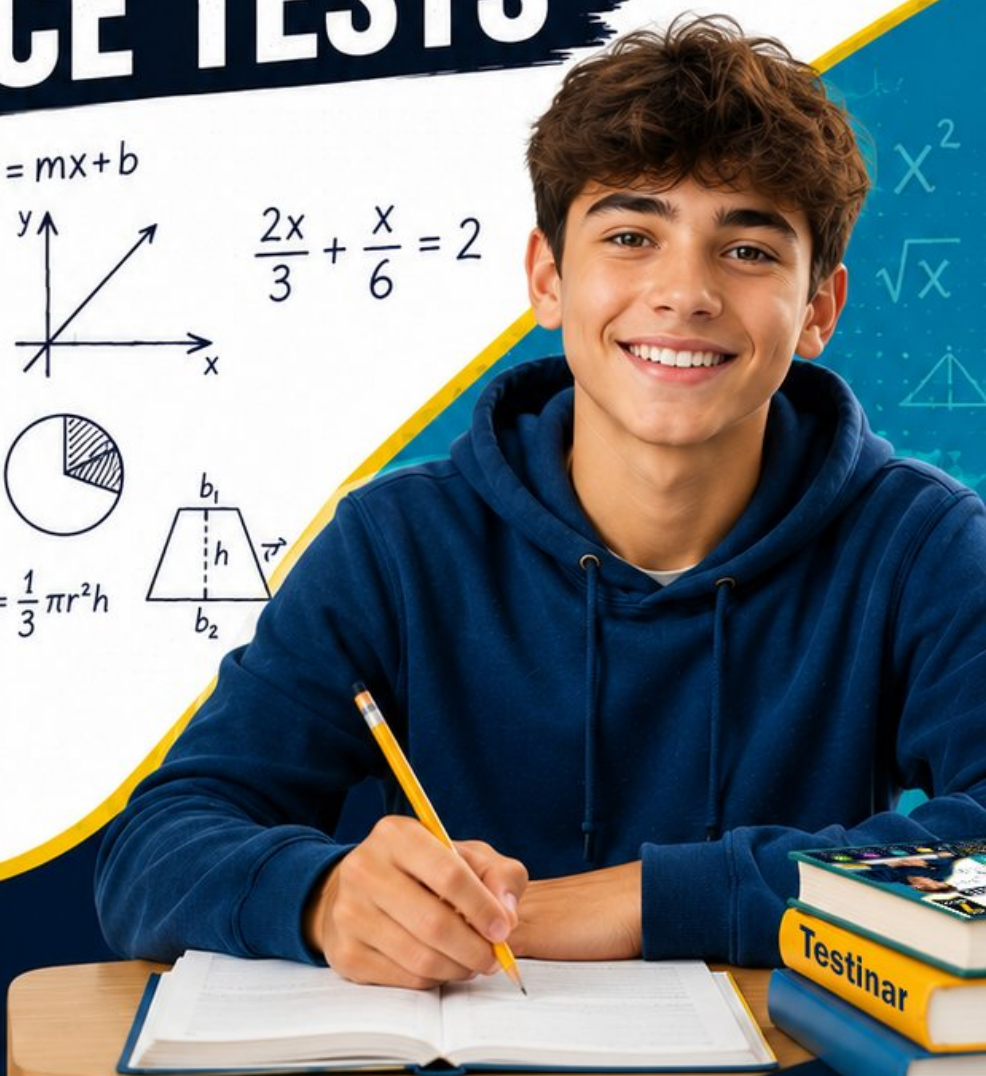
$$y = mx + b$$



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

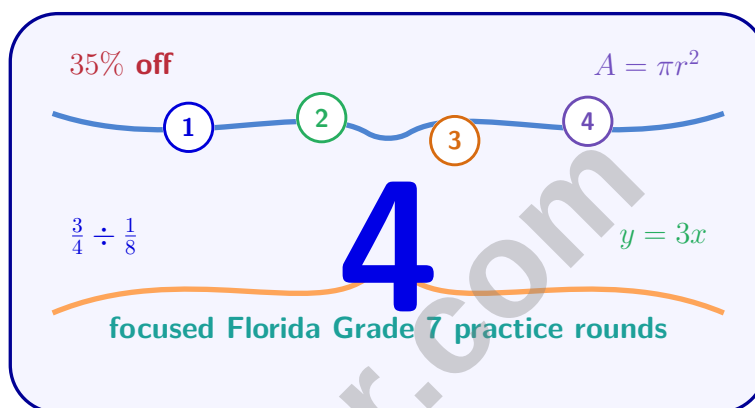


$$V = \frac{1}{3} \pi r^2 h$$

4 PRINTED
TESTS2 ONLINE
TESTSUSE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTSFOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.Build
ConfidenceStrengthen
Math SkillsDetailed Answers
& ExplanationsImprove Test
Performance

4 Florida FAST Grade 7 Math Practice Tests

Standards Practice for FAST Success with Step-by-Step Support



Four complete 40-question Grade 7 FAST 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, Florida Grade 7 Problem Solver!

Four focused rounds for sharper FAST math thinking

This book gives you four full Grade 7 FAST 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 Florida 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.

Florida 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 FAST 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

Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	30
★ Practice Test 3	_____	45
★ Practice Test 4	_____	61
Practice Test Answer Keys	_____	75
Practice Test Answers and Explanations	_____	78

1) A window measures 3 feet wide and 4 feet tall. A scale drawing shows it as 1.5 inches wide. What is the height on the scale drawing?

- ☐ A. 1 inch
☐ B. 4 inches

- ☐ C. 3 inches
☐ D. 2 inches

2) A pizza has diameter 14 inches. What is its circumference? Use $\pi \approx \frac{22}{7}$.

- ☐ A. 44 in
☐ B. 22 in

- ☐ C. 88 in
☐ D. 154 in

3) A soup can has a radius of 2 inches and a height of 4 inches. What is the volume of the can? Use $\pi \approx 3.14$.

- ☐ A. 25.12 in^3
☐ B. 50.24 in^3

- ☐ C. 75.36 in^3
☐ D. 100.48 in^3

4) A jar holds 3 yellow, 4 purple, and 8 orange tokens. If a token is drawn at random, what is the theoretical probability it is purple?

- ☐ A. $\frac{4}{15}$
☐ B. $\frac{4}{12}$

- ☐ C. $\frac{1}{4}$
☐ D. $\frac{4}{8}$

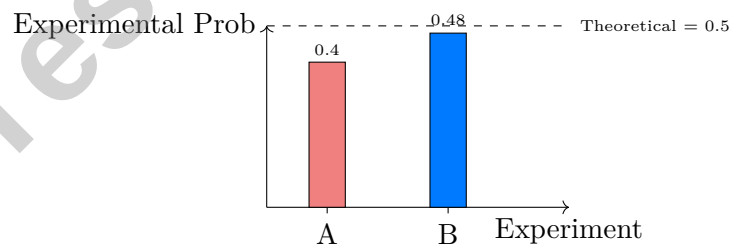
5) A standard die is rolled and a coin is flipped. How many favorable outcomes result in rolling a 5 or 6 and flipping Heads?

- ☐ A. 2
☐ B. 4

- ☐ C. 6
☐ D. 8



- 6) Two dot plots show the number of text messages sent during a study session by two groups. Group P: 5, 6, 6, 7, 7, 7, 8, 8, 9 (messages); Group Q: 1, 2, 9, 10, 11, 12 (messages). Which group was more focused (less distracted)?
- ☐ A. Group P (consistent messaging around 7) ☐ C. Both groups sent identical messages
- ☐ B. Group Q (sent very few messages) ☐ D. Group Q was more focused
- 7) A bag contains 4 red, 3 blue, and 2 green marbles. If one marble is drawn at random, what is the probability it is NOT blue?
- ☐ A. $\frac{3}{9}$ ☐ C. $\frac{4}{9}$
- ☐ B. $\frac{6}{9}$ ☐ D. $\frac{2}{9}$
- 8) A stem-and-leaf plot has stem 3 with leaves 2, 5, 7, 8. Which values does this represent?
- ☐ A. 23, 35, 37, 38 ☐ C. 2, 5, 7, 8
- ☐ B. 32, 35, 37, 38 ☐ D. 3.2, 3.5, 3.7, 3.8
- 9) A researcher conducted two experiments. Experiment A: flipped a coin 60 times, got heads 24 times. Experiment B: flipped a coin 600 times, got heads 288 times. Which statement best describes these results?



- ☐ A. Experiment A's result is more reliable because it is smaller. ☐ C. Both experiments give the same experimental probability.
- ☐ B. Experiment B's result is closer to the theoretical probability of 0.5. ☐ D. Experiment A proves the coin is biased.



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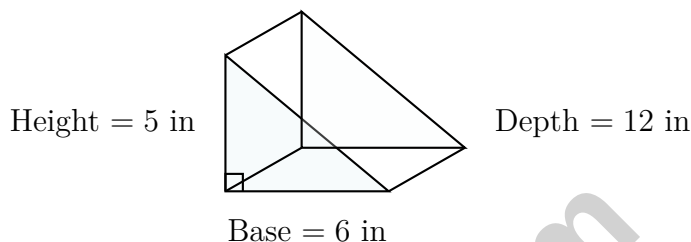
- 10) A parking lot is shaped like a large rectangle ($20 \text{ yd} \times 15 \text{ yd}$) with two rectangular sections removed from opposite corners (each $4 \text{ yd} \times 3 \text{ yd}$). What is the remaining area?

☐ A. 276 yd^2

☐ C. 300 yd^2

☐ B. 288 yd^2

☐ D. 312 yd^2



11)

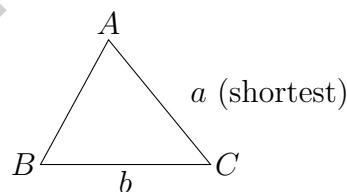
A triangular prism has a right-triangular base with legs 6 inches and 5 inches, and the prism has a depth of 12 inches. What is the volume? (Area of a right triangle $= \frac{1}{2} \times \text{leg}_1 \times \text{leg}_2$)

☐ A. 90 in^3

☐ C. 360 in^3

☐ B. 180 in^3

☐ D. 720 in^3



12)

A scalene triangle has sides of length a , b , and c where $a < b < c$. Which inequality must be true?

☐ A. $a + b < c$

☐ C. $a + b > c$

☐ B. $a + b = c$

☐ D. $a - b > c$



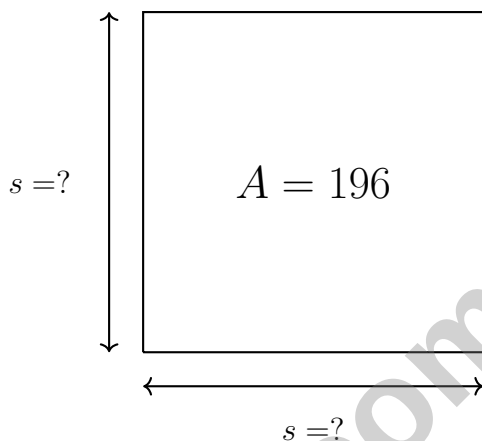
1) A number decreased by 9 and then tripled equals 15. Which equation matches this?

☐ A. $3(x - 9) = 15$

☐ C. $(x - 9) \div 3 = 15$

☐ B. $3x - 9 = 15$

☐ D. $x - 9 \times 3 = 15$



2)

What is the side length s of this square with area 196?

☐ A. 12

☐ C. 14

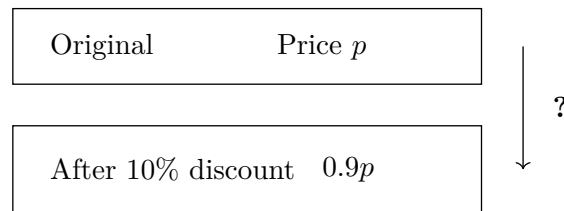
☐ B. 13

☐ D. 15

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



4)



Which expression correctly shows the relationship from the diagram?

☐ A. $0.9p = p - 0.1p$

☐ C. $0.9p = 1.1p$

☐ B. $0.9p = p + 0.1p$

☐ D. $0.9p = 0.1p$

5) A student writes: $(-7) \times 5 = 35$. What error did the student make?

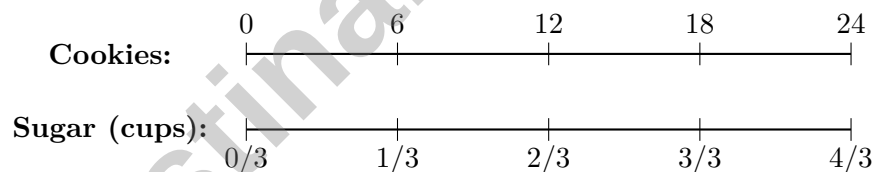
☐ A. Forgot to apply the negative sign

☐ C. Multiplied the absolute values incorrectly

☐ B. Added instead of multiplied

☐ D. Used the wrong order of operations

6) A recipe uses $\frac{2}{3}$ cup sugar for 12 cookies. Complete the double number line:



How much sugar is needed for 18 cookies?

☐ A. 1 cup

☐ C. $1\frac{1}{2}$ cups

☐ B. $1\frac{1}{4}$ cups

☐ D. 2 cups


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- 1) If a complementary pair has one angle that is four times the other, what is the measure of the smaller angle?

☐ A. 15°
☐ C. 22.5°
☐ B. 18°
☐ D. 30°

- 2) Two datasets are displayed in a back-to-back stem-and-leaf plot:

	Group A	Stem	Group B
Group A (left) vs. Group B (right)	8, 5, 2	5	3, 6, 9
	7, 4	6	1, 5, 8
		7	2, 4, 6

Which group has more data values?

☐ A. Group A
 ☐ C. Both equal
☐ B. Group B
 ☐ D. Cannot determine

- 3) A park is shaped like a large rectangle ($30\text{ m} \times 20\text{ m}$) with a triangular picnic area (20 m base, 5 m height) and a circular pond (radius 3 m) inside. What is the open grassy area? (Use $\pi \approx 3.14$.)

☐ A. 521.74 m^2
☐ C. 571.74 m^2
☐ B. 550 m^2
☐ D. 600 m^2

- 4) A rectangular prism has dimensions 5 m , 4 m , and 8 m . What is its volume?

☐ A. 320 m^3
☐ C. 40 m^3
☐ B. 160 m^3
☐ D. 17 m^3



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5) Three given side lengths are 4 cm, 5 cm, and 10 cm. How many distinct triangles can be formed?

☐ A. 0

☐ B. 1

☐ C. 2

☐ D. Infinitely many

6) Which segment is NOT a chord?

☐ A. A diameter

☐ B. A radius

☐ C. A segment with both endpoints on the circle

☐ D. A segment through the center connecting two points on the circle

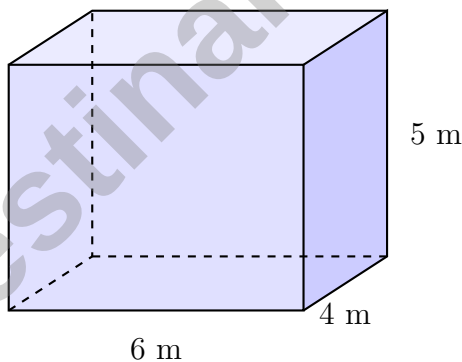
7) What is the GCF of $6xy$ and $9y$?

☐ A. $3y$

☐ B. $6y$

☐ C. $9y$

☐ D. $3xy$



8)

An isometric rectangular prism with dimensions $6\text{ m} \times 5\text{ m} \times 4\text{ m}$ is shown. Determine the surface area.

☐ A. 120 m^2

☐ B. 148 m^2

☐ C. 166 m^2

☐ D. 240 m^2



Florida FAST 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 Florida FAST practice test.



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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (7.RP.1-7.RP.3) Scale factor: $3 \text{ ft}/1.5 \text{ in} = 2 \text{ ft per inch}$. Height: $4 \div 2 = 2 \text{ inches}$.
- 2) **Choice A is correct.** (7.G.4-7.G.6) $C = \pi d = \frac{22}{7} \times 14 = \frac{308}{7} = 44 \text{ in}$.
- 3) **Choice B is correct.** (7.G.4-7.G.6) $V = \pi r^2 h \approx 3.14 \times 2^2 \times 4 = 3.14 \times 4 \times 4 = 50.24 \text{ in}^3$.
- 4) **Choice A is correct.** (7.SP.5-7.SP.8) Total tokens = $3 + 4 + 8 = 15$. $P(\text{purple}) = \frac{4}{15}$.
- 5) **Choice A is correct.** (7.SP.5-7.SP.8) Rolling 5 or 6: $\{5, 6\} = 2 \text{ outcomes}$. Flipping Heads: 1 outcome. Favorable: 5H, 6H = 2 outcomes.
- 6) **Choice A is correct.** (7.SP.3) While both groups sent messages, Group P's clustering at 7 messages shows a consistent pattern during study. Group Q's extreme values (1–2, then 9–12) suggest interruptions, making Group P appear more consistently focused.
- 7) **Choice B is correct.** (7.SP.5-7.SP.8) Total marbles: 9. Blue marbles: 3. Not blue: $9 - 3 = 6$. Probability: $\frac{6}{9} = \frac{2}{3}$.
- 8) **Choice B is correct.** (7.SP.1-7.SP.4) Each leaf combines with its stem: stem 3 + leaf 2 = 32, stem 3 + leaf 5 = 35, etc.
- 9) **Choice B is correct.** (7.SP.6) Experiment A: $\frac{24}{60} = 0.4$ (differs by 0.1 from 0.5). Experiment B: $\frac{288}{600} = 0.48$ (differs by 0.02 from 0.5). This illustrates the law of large numbers: larger sample sizes produce experimental probabilities closer to the theoretical value.
- 10) **Choice A is correct.** (7.G.4-7.G.6) Start with the large rectangle: $20 \times 15 = 300 \text{ yd}^2$. Subtract the two removed corner sections: $2 \times (4 \times 3) = 24 \text{ yd}^2$. Remaining area: $300 - 24 = 276 \text{ yd}^2$.
- 11) **Choice B is correct.** (7.G.4-7.G.6) Base area = $\frac{1}{2} \times 6 \times 5 = 15 \text{ in}^2$. Volume = $15 \times 12 = 180 \text{ in}^3$.
- 12) **Choice C is correct.** (7.G.1-7.G.5) By the Triangle Inequality, the sum of the two shorter sides must exceed the longest side.
- 13) **Choice A is correct.** (7.G.4-7.G.6) The correct radius is $10 \div 2 = 5 \text{ cm}$. The student incorrectly multiplied: $10 \times 2 = 20 \text{ cm}$.
- 14) **Choice A is correct.** (7.SP.5-7.SP.8) Blue sections = 2 out of 8 total. Probability = $\frac{2}{8} = \frac{1}{4}$.
- 15) **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 $180^\circ \div 3 = 60^\circ$.
- 16) **Choice C is correct.** (7.SP.1-7.SP.4) Ages 12–17: $\frac{85}{100} = 0.85$ or 85%. Ages 18–24: $\frac{102}{120} = 0.85$ or 85%. Ages 25+: $\frac{44}{100} = 0.44$ or 44%. Ages 25+ is lowest.
- 17) **The correct answer is 12.** (7.NS.1-7.NS.3) Both -12 and 12 are the same distance from zero, which is 12 units. They are opposites.
- 18) **The correct answer is A,D.** (7.RP.1-7.RP.3) A and D are unit rates because each gives a price per single unit of weight. Option B is a distance, and option C is a total count.
- 19) **The correct answer is -30 .** (7.NS.2) Change per minute is -7.5 meters. After 4 minutes: $(-7.5) \times 4 = -30$ meters.
- 20) **Choice B is correct.** (7.NS.1-7.NS.3) $-20 - (-14) = -20 + 14 = -6$.
- 21) **Choice C is correct.** (7.RP.3) The shaded region is $\frac{60}{100} = 60\%$ of the grid.
- 22) **The correct answer is 100.** (7.NS.1-7.NS.3) Perimeter = $4s = 40$, so $s = 10 \text{ cm}$. Area = $s^2 = 10^2 = 100 \text{ cm}^2$.
- 23) **Choice D is correct.** (7.RP.3) Widget: discount = $(20 - 16)/20 = 4/20 = 0.20 = 20\%$. Gadget: discount = $(30 - 24)/30 = 6/30 = 0.20 = 20\%$. Both are 20% off.
- 24) **Choice C is correct.** (7.SP.1-7.SP.4) 50% of $5000 = 0.50 \times 5000 = 2500 \text{ MW}$.
- 25) **Choice D is correct.** (7.RP.1-7.RP.3) Convert $3\frac{1}{2} = \frac{7}{2}$. Unit rate = $\frac{7/2}{1/4} = \frac{7}{2} \times 4 = 14 \text{ mph}$.
- 26) **Choice D is correct.** (7.RP.1-7.RP.3) The line passes through $(0,0)$ and $(5,5)$, making it proportional with $k = 1$ or $y = x$.
- 27) **Choice D is correct.** (7.RP.1-7.RP.3) The constant is $k = \frac{12}{3} = 4$. So $y = 4x$. When $x = 7$, $y = 4(7) = 28$.
- 28) **Choice D is correct.** (7.RP.1-7.RP.3) The unit-rate point $(1,0.8)$ shows $k = 0.8$, so the equation is $y = 0.8x$.
- 29) **Choice B is correct.** (7.SP.5-7.SP.8) Total beads: $12 + 8 + 5 = 25$. Blue beads: 8. So $P(\text{blue}) = \frac{8}{25} = 0.32$.



The Power of Showing Work

Hi, Organized Solver!

◇ You practiced Grade 7 skills that often require more than one step. That means your written work matters. ◇

★ **Remember this:** Showing work is not extra. It is how you track your thinking, find errors, and prove that your answer did not happen by luck. You practiced across 4 full Grade 7 practice tests, and that repeated effort matters. ★

Organized Work Habits

- **One Line Per Step:** Keep the path readable.
- **Box the Answer:** Make the final result easy to find.
- **Use Labels:** Tell what each value represents.
- **Check the Path:** Follow your steps backward if needed.

Grade 7 test-day tip: When a problem has several steps, write less on each line. Space makes checking easier.

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

Jay Daie

Your Organized-Work 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.

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