

3

Florida
FAST

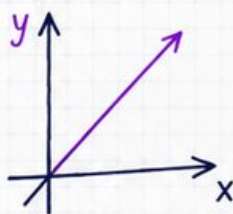
GRADE

7

MATH

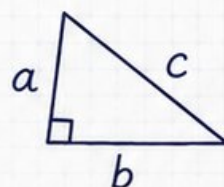
PRACTICE TESTS

- ✓ 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

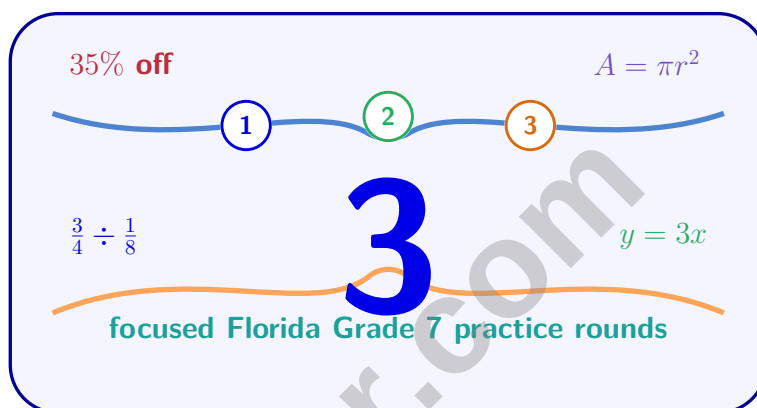


USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.

Build
ConfidenceStrengthen
Math SkillsDetailed Answers
& ExplanationsImprove Test
Performance

3 Florida FAST Grade 7 Math Practice Tests

Three FAST Practice Rounds with Keys and Skill Review



Three 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!

Three focused rounds for sharper FAST math thinking

This book gives you three 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 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.

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?

Three FAST 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) Two datasets both have median 100 and IQR 20. Dataset P has mean 105. Dataset Q has mean 95. Without seeing the actual data, what can you infer?

- ☐ A. Both datasets are symmetric ☐ C. The two datasets are identical
☐ B. Dataset P has high outliers pulling the mean above the median; Dataset Q has low outliers ☐ D. Cannot infer anything about skewness

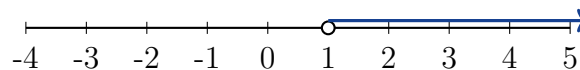
- 2) A diver begins at sea level (0 meters) and descends 25 meters. Then she ascends 8 meters. What is her final depth below sea level? Write your answer as an integer.

- 3) **Item Cost Estimates**

Item	Estimated Cost	Actual Cost
Shirt	\$22	\$20

What is the percent error for the shirt cost estimate?

- ☐ A. 91% ☐ C. 11%
☐ B. 9.1% ☐ D. 10%
- 4) Which statement correctly describes what the open circle represents on a number line?



- ☐ A. The boundary value is included in the solution set ☐ C. The solution includes only positive numbers
☐ B. The boundary value is NOT included in the solution set ☐ D. The solution includes all real numbers



- 5) Expand and simplify: $3(x + 2) + 2(x - 1)$
- ☐ A. $5x + 4$ ☐ C. $5x + 1$
☐ B. $5x + 6$ ☐ D. $6x + 4$
- 6) A parent wants to save money for a child's education. If \$4500 is invested at 5.5% simple interest, what is the difference in total amount between 5 years and 3 years?
- ☐ A. \$247.50 ☐ C. \$742.50
☐ B. \$990 ☐ D. \$495
- 7) If the area of a rectangle is $18x + 27$ square units and the width is 9 units, what is the length?
- ☐ A. $2x + 3$ ☐ C. $18x$
☐ B. $2x + 27$ ☐ D. $18x + 27$
- 8) A blueprint scale is $\frac{1}{4}$ inch to 1 meter. Two points on the blueprint are 3 inches apart. How far apart are they in meters?
- ☐ A. 3 meters ☐ C. 12 meters
☐ B. 0.75 meters ☐ D. 1.33 meters
- 9) A store marks down a \$85 item by 12%. What is the sale price?
- ☐ A. \$80.00 ☐ C. \$76.40
☐ B. \$75.20 ☐ D. \$74.80
- 10) A store sells a item for \$84 after applying a 30% markup to its cost. What was the cost?
- ☐ A. \$54.60 ☐ C. \$109.20
☐ B. \$114.86 ☐ D. \$64.62



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11) What is $7 + 9$?

☐ A. 2

☐ B. -2

☐ C. 63

☐ D. 16

12) Simplify: $0.5x + 1.5x + 2y - y$

☐ A. $3.5xy$

☐ B. $2x + y$

☐ C. $1.5x + y$

☐ D. $3.5x + 2y$

13) A cube has surface area 600 cm^2 . What is its edge length?

☐ A. 5 cm

☐ B. 10 cm

☐ C. 100 cm

☐ D. 3600 cm

14) To simulate the probability of guessing a true/false question correctly 3 times in a row, which tool best models this compound event?

☐ A. Rolling a six-sided die once

☐ B. Flipping a coin 3 times

☐ C. Spinning a spinner with 3 equal sections once

☐ D. Drawing a card from a deck of 52 once

15) Which expression is equivalent to $8 - 3$?

☐ A. $8 + 3$

☐ B. $8 + (-3)$

☐ C. $-8 + 3$

☐ D. $3 - 8$



- 1) A restaurant's revenue last month was \$5000. This month it increased by 15%. What was the revenue this month?

☐ A. \$750 ☐ C. \$5750
☐ B. \$4250 ☐ D. \$6000

- 2) Which step has an error in solving $\frac{1}{2}x + 6 = 10$?

Step	Equation
Start	$\frac{1}{2}x + 6 = 10$
Step 1	$\frac{1}{2}x = 16$
Step 2	$x = 32$

- ☐ A. No error; all correct ☐ C. Error in Step 2; should be $x = 8$
☐ B. Error in Step 1; should be $\frac{1}{2}x = 4$ ☐ D. Errors in both steps
- 3) A rectangle has dimensions 4 in by 6 in at a scale of 1 in : 2 ft. If redrawn at a new scale of 1 in : 4 ft, what are the new dimensions?
- ☐ A. 1 in by 1.5 in ☐ C. 8 in by 12 in
☐ B. 2 in by 3 in ☐ D. 16 in by 24 in
- 4) A rectangular prism has dimensions 4 cm $\times$ 6 cm $\times$ 8 cm. If a vertical plane cuts through it perpendicular to the base, which shape MUST appear in the cross-section?
- ☐ A. Square ☐ C. Trapezoid
☐ B. Rectangle ☐ D. Triangle
- 5) An angle is 18° more than its complement. What is the measure of the angle?
- ☐ A. 36° ☐ C. 54°
☐ B. 45° ☐ D. 108°



6) A map has a scale of 2 inches = 100 miles. If two towns are 5 inches apart on the map, what is the actual distance?

☐ A. 100 miles

☐ C. 250 miles

☐ B. 200 miles

☐ D. 350 miles

7) A circular track has radius 50 meters. A runner completes 3 laps. Approximately how far does the runner travel? Use $\pi \approx 3.14$.

☐ A. 157 m

☐ C. 471 m

☐ B. 314 m

☐ D. 942 m

8) A video game costs \$35. After a 20% price increase, what is the new cost?

9) A cylindrical pipe has a height of 12 inches. If the volume is 301.44 in^3 , what is the radius? Use $\pi \approx 3.14$.

☐ A. 2 inches

☐ C. 4 inches

☐ B. 3 inches

☐ D. 5 inches

10) A box contains 15 pens: 6 red, 4 blue, 3 black, and 2 green. A pen is selected at random. What is the probability of selecting a red or green pen?

☐ A. $\frac{6}{15}$

☐ C. $\frac{4}{15}$

☐ B. $\frac{8}{15}$

☐ D. $\frac{7}{15}$



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1) Which scenario earns the most compound interest over 2 years?

☐ A. \$1,000 at 3%

☐ C. \$800 at 8%

☐ B. \$1,000 at 5%

☐ D. \$500 at 10%

2) A jar holds 20 identical slips of paper. How many slips must be labeled “YES” if the probability of drawing “YES” is 0.4?

☐ A. 4

☐ C. 6

☐ B. 8

☐ D. 10

3) A bank charges a 3% fee on ATM withdrawals outside its network. If a customer withdraws \$300 from an out-of-network ATM, what is the ATM fee?

☐ A. \$6.00

☐ C. \$12.00

☐ B. \$15.00

☐ D. \$9.00

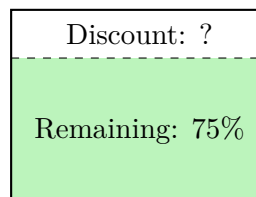
4) A restaurant bill is \$42.80. You want to leave a 15% tip. Which amount is closest to the correct tip?

☐ A. \$6.00

☐ C. \$7.50

☐ B. \$8.00

☐ D. \$6.42



5) Original: \$120

A percent bar shows that 75% of the original price remains after a discount. The original price is \$120. What is the percent discount?

☐ A. 20%

☐ C. 75%

☐ B. 30%

☐ D. 25%



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6) Factor: $-5a - 20b$

☐ A. $-5(a + 4b)$

☐ B. $5(a + 4b)$

☐ C. $-5(a - 4b)$

☐ D. $5(-a - 4b)$

7) Evaluate $2 + (-6) + 10$.

☐ A. -14

☐ B. 12

☐ C. 18

☐ D. 6

8) A proportional relationship has an equation $y = 2.2x$. What is the value of y when $x = 5$?

9) Simplify: $6x^2 + 2x^2 - 3x$

☐ A. $8x^2 - 3x$

☐ B. $5x^2$

☐ C. $8x^2 - 3x^2$

☐ D. $5x^3$

10) A blueprint for a kitchen has dimensions of 3.2 inches by 2.8 inches with a scale of 1 inch = 3 feet. What is the actual area of the kitchen in square feet?



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 B is correct.** (7.SP.1-7.SP.4) Same median (100) and IQR, but different means. Mean > Median indicates high outliers (right skew). Mean < Median indicates low outliers (left skew). Dataset P is right-skewed; Dataset Q is left-skewed.
- 2) **The correct answer is -17.** (7.NS.1-7.NS.3) After descending: $0 - 25 = -25$. After ascending 8 meters: $-25 - (-8) = -25 + 8 = -17$. She is 17 meters below sea level.
- 3) **Choice D is correct.** (7.RP.3) Percent error = $\frac{|22-20|}{20} \times 100\% = \frac{2}{20} \times 100\% = 10\%$.
- 4) **Choice B is correct.** (7.EE.4b) An open circle indicates a strict inequality (< or >), meaning the boundary value itself is not part of the solution.
- 5) **Choice A is correct.** (7.EE.1-7.EE.2) Expand: $3x + 6 + 2x - 2 = 5x + 4$. Combine like terms.
- 6) **Choice D is correct.** (7.RP.3) At 5 years: $I = 4500(0.055)(5) = \$1237.50$, so $A = \$5737.50$. At 3 years: $I = 4500(0.055)(3) = \$742.50$, so $A = \$5242.50$. Difference: $5737.50 - 5242.50 = \$495$.
- 7) **Choice A is correct.** (7.EE.1-7.EE.2) Factor: $18x + 27 = 9(2x + 3)$. Length = $\frac{9(2x+3)}{9} = 2x + 3$.
- 8) **Choice C is correct.** (7.RP.1-7.RP.3) If $\frac{1}{4}$ inch = 1 meter, then 1 inch = 4 meters. So $3 \times 4 = 12$ meters.
- 9) **Choice D is correct.** (7.RP.3) The discount is 12% of \$85 = $0.12 \times 85 = 10.20$ dollars. Sale price: $85 - 10.20 = 74.80$ dollars.
- 10) **Choice D is correct.** (7.RP.3) Selling price = cost $\times 1.30$. So $84 = \text{cost} \times 1.30$, giving cost = $84 \div 1.30 \approx \$64.62$.
- 11) **Choice D is correct.** (7.NS.1b) Both numbers are positive, so add them directly: $7 + 9 = 16$.
- 12) **Choice B is correct.** (7.EE.1) Combine x terms: $(0.5 + 1.5)x = 2x$. Combine y terms: $(2 - 1)y = y$. Result: $2x + y$.
- 13) **Choice B is correct.** (7.G.4-7.G.6) $6s^2 = 600 \Rightarrow s^2 = 100 \Rightarrow s = 10$ cm.
- 14) **Choice B is correct.** (7.SP.5-7.SP.8) Each true/false question has 2 equally likely outcomes (like a coin). The compound event is three consecutive guesses, so three flips simulate this.
- 15) **Choice B is correct.** (7.NS.1-7.NS.3) Subtraction can be rewritten as adding the opposite: $8 - 3 = 8 + (-3) = 5$.
- 16) **Choice B is correct.** (7.NS.2d) Divide $1 \div 6 = 0.1666\ldots = 0.\overline{16}$. Since $6 = 2 \times 3$, the factor 3 makes it repeat.
- 17) **Choice B is correct.** (7.EE.1-7.EE.2) Three times k is $3k$. Minus 7 gives $3k - 7$.
- 18) **Choice A is correct.** (7.EE.1-7.EE.2) Combine: $(5p + 2p) + (3 - 9) = 7p - 6$.
- 19) **Choice A is correct.** (7.EE.4a) Distribute: $-5x - 10 = 20$. Add 10: $-5x = 30$. Divide by -5 : $x = -6$.
- 20) **Choice A is correct.** (7.EE.4b) "A number" is n ; "is more than" is $>$; "twice itself minus 5" is $2n - 5$. Direct translation: $n > 2n - 5$.
- 21) **Choice D is correct.** (7.G.1-7.G.5) Scale factor is 5 (linear). Area scale factor is $5^2 = 25$. Drawing area: $4 \times 5 = 20$ cm². Actual area: $20 \times 25 = 500$ cm². (The student's error was multiplying by 5 instead of 25.)
- 22) **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.
- 23) **Choice C is correct.** (7.G.1-7.G.5) The correct reflection over the x -axis maps $(x, y) \rightarrow (x, -y)$. The image shown negates both, indicating the student confused the axis.
- 24) **Choice A is correct.** (7.G.4-7.G.6) From $154 = \frac{22}{7} \times r^2$, we have $r^2 = 49$, so $r = 7$ cm.
- 25) **Choice A is correct.** (7.SP.1-7.SP.4) Evening hours systematically exclude people who work evening shifts or are otherwise unavailable at that time, creating a biased sample that overrepresents people available in the evening.
- 26) **Choice B is correct.** (7.SP.1-7.SP.4) Equal representation would show nearly equal frequencies. The 30–40 interval (24) has 4 times as many people as the 10–20 interval (6), contradicting the "equal" claim.
- 27) **Choice D is correct.** (7.RP.1-7.RP.3) Check: $v = \frac{2}{7}(7) = 2$, $v = \frac{2}{7}(14) = 4$, $v = \frac{2}{7}(28) = 8$. All points match the equation.
- 28) **Choice D is correct.** (7.RP.1-7.RP.3) Unit rate = $\$84 \div 12 = \7 per photo.
- 29) **The correct answer is $\frac{4}{3}$.** (7.RP.1-7.RP.3) If $\frac{1}{2}$ job takes $\frac{2}{3}$ hour, then 1 full job takes $\frac{2}{3} \times 2 = \frac{4}{3}$ hours.



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 3 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 **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!

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- ✓ 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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