

5

Florida FAST

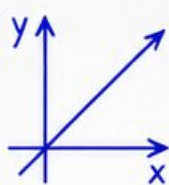
GRADE

7

MATH

PRACTICE TESTS

Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$



$$V = \pi r^2 h$$



5 PRINTED
TESTS



2 ONLINE
TESTS

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



Build
Confidence



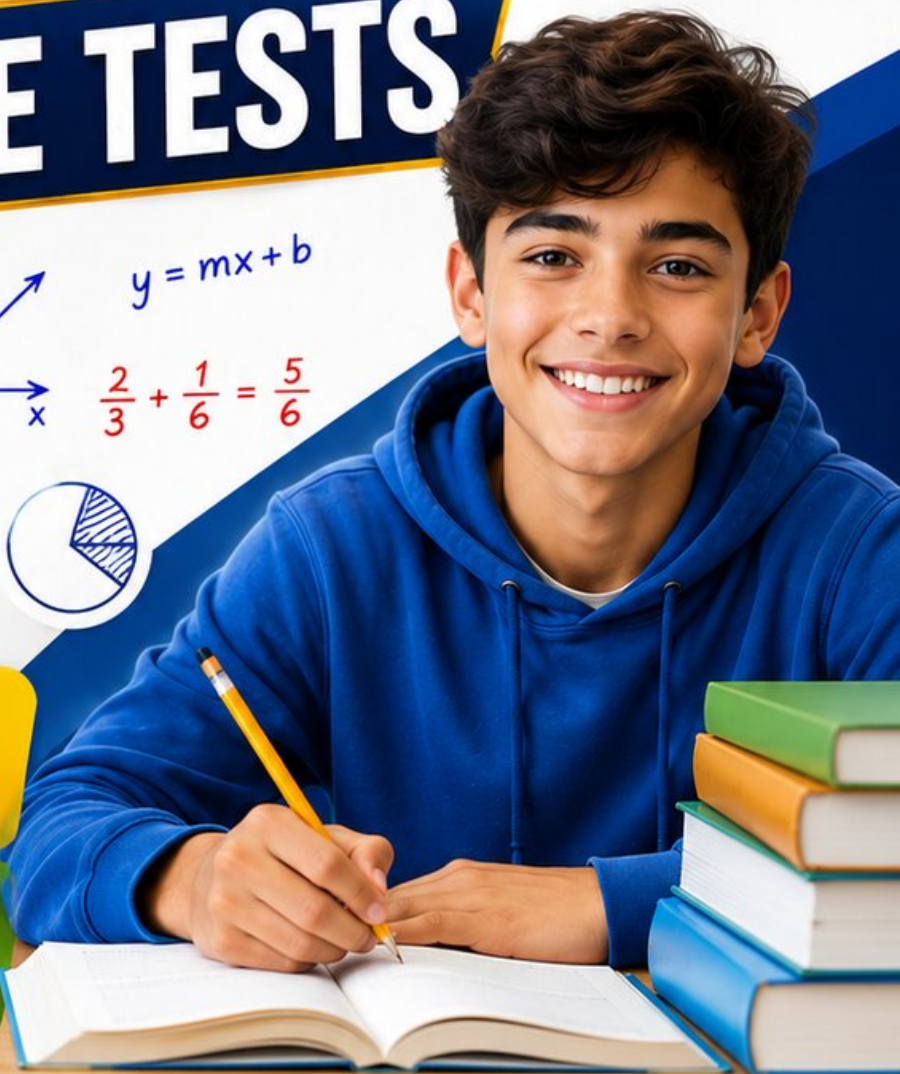
Strengthen
Math Skills



Detailed Answers
& Explanations

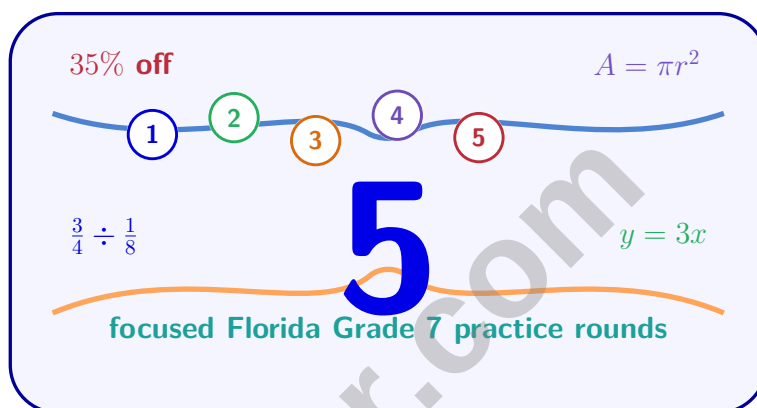


Improve Test
Performance



5 Florida FAST Grade 7 Math Practice Tests

Skill-Building Practice with Keys, Explanations, and Mixed Review



Five 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!

Five focused rounds for sharper FAST math thinking

This book gives you five 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 five-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?

Five FAST tests, 200 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 3–5	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.



Scan me!
For more practice
& answers

Table of Contents

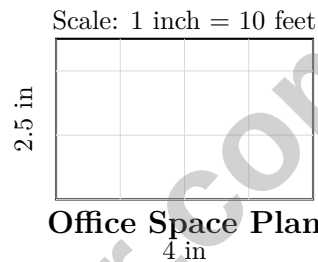
★ Practice Test 1	_____	13
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- 1) A car uses 1 gallon of gas for every 28 miles driven. If a trip is 350 miles and gas costs \$3.20 per gallon, what is the total gas cost for the trip?

☐ A. \$45.00 ☐ C. \$40.00
☐ B. \$50.00 ☐ D. \$35.00

- 2) Evaluate: $11 - (-6)$

☐ A. 5 ☐ C. -5
☐ B. -17 ☐ D. 17



- 3)

Based on the scale, what is the perimeter of the office space in feet?

☐ A. 325 feet ☐ C. 6.5 feet
☐ B. 65 feet ☐ D. 130 feet

- 4) A proportional relationship passes through the points (6, 2) and (0, 0). What is the constant of proportionality?

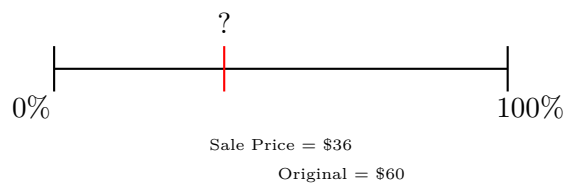


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5) What is 5% of 200?

- ☐ A. 5
☐ B. 20

- ☐ C. 15
☐ D. 10



6)

A discount bar shows original price \$60 and sale price \$36. What percent discount was applied?

- ☐ A. 30%
☐ B. 24%

- ☐ C. 36%
☐ D. 40%

7) Which chip model represents $3 + (-5)$?

A

B

3 pairs canceled

C

D



8) Simplify: $-3p - 4p + 2p$

☐ A. $-5p$

☐ C. $9p$

☐ B. $-9p$

☐ D. 0

9) What angle corresponds to 50% of a circle?

☐ A. 90°

☐ C. 270°

☐ B. 180°

☐ D. 360°

10) Subtract: $\frac{3}{4} - \frac{1}{6}$

☐ A. $\frac{2}{6}$

☐ C. $\frac{1}{2}$

☐ B. $\frac{7}{12}$

☐ D. $\frac{2}{3}$

11) Convert $\frac{11}{50}$ to a decimal.

☐ A. 0.11

☐ C. 0.50

☐ B. 0.22

☐ D. 0.55

12) A pool fills at a rate of $\frac{5}{6}$ gallon in $\frac{1}{3}$ minute. How many gallons per minute is this?

☐ A. $\frac{5}{18}$ gal/min

☐ C. $\frac{18}{5}$ gal/min

☐ B. $\frac{1}{2}$ gal/min

☐ D. $\frac{5}{2}$ gal/min



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& answers

1) What is the coefficient of x in the simplified form of $9x - 4x + 2y$?

☐ A. 9

☐ C. 4

☐ B. 5

☐ D. 13

2) Simplify $(7p + 3) + (2p - 8)$, then evaluate when $p = 2$.

3) A bookstore has 400 books. $\frac{1}{4}$ of them are fiction. What percent of the books are fiction?

☐ A. 15%

☐ C. 25%

☐ B. 20%

☐ D. 40%

4) A juice stand sells drinks at a proportional rate. When 5 drinks are sold, the revenue is \$30. Write the equation for revenue r in terms of drinks d .

☐ A. $r = 5d$

☐ C. $r = 30d$

☐ B. $r = \frac{d}{6}$

☐ D. $r = 6d$

5) The cost c of buying n identical books is proportional to n . If 4 books cost \$18, what is the constant of proportionality (unit price per book)?

☐ A. \$2.50

☐ C. \$14.00

☐ B. \$4.00

☐ D. \$4.50



- 6) A square pyramid has a base with side length 12 cm and slant height 10 cm. What is the surface area?

☐ A. 144 cm^2

☐ C. 384 cm^2

☐ B. 240 cm^2

☐ D. 480 cm^2

7)

Number of Heads	0	1	2	3	Total
Frequency	12	36	37	15	100

A coin is flipped 3 times in each trial, and this is repeated 100 times. The table shows the number of heads per trial. What is the estimated probability of getting exactly 2 heads in three flips?

☐ A. 0.27

☐ C. 0.37

☐ B. 0.35

☐ D. 0.40

- 8) Solve for x : $4(2x + 1) = 3(x + 8)$

☐ A. $x = 2$

☐ C. $x = 4$

☐ B. $x = 3$

☐ D. $x = 5$

- 9) Solve: $x + 7 < 12$

☐ A. $x < 5$

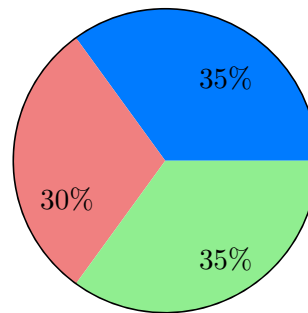
☐ C. $x \leq 5$

☐ B. $x > 5$

☐ D. $x < 19$



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& answers



1)

The circle graph above shows favorite types of cuisine at a restaurant. Blue represents Asian, red represents Italian, and green represents Mexican. If 400 customers were surveyed, how many prefer Italian?

☐ A. 120☐ C. 160☐ B. 140☐ D. 280

2) Marcus saves money each week. He already has \$15 and saves \$8 per week. After how many weeks will he have \$63?

☐ A. 4 weeks☐ C. 8 weeks☐ B. 6 weeks☐ D. 10 weeks

3) Solve the inequality: $2x + 5 \geq 13$

☐ A. $x \geq 3$ ☐ C. $x \leq 4$ ☐ B. $x \geq 4$ ☐ D. $x \geq 9$

4) A scale drawing has a scale of 1 cm : 0.5 m. What is the scale factor?

☐ A. 0.5☐ C. 50☐ B. 2☐ D. 500

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& answers

- 5) A student saves money at a constant rate. The proportional relationship passes through $(6, 90)$ where x = weeks and y = total savings in dollars. How much is saved per week?

☐ A. \$6 ☐ C. \$84
☐ B. \$540 ☐ D. \$15

- 6) A phone plan costs \$75 per month. Over one year, a family budgets this expense. However, they receive a 12% annual discount for bundling with their internet. What is the annual cost after the discount?

☐ A. \$594 ☐ C. \$792
☐ B. \$660 ☐ D. \$900

- 7) Solve for x : $6(x - 2) = 36$

- 8) Which division expression equals 2?

☐ A. $\frac{1}{3} \div \frac{1}{3}$ ☐ C. $\frac{4}{7} \div \frac{2}{7}$
☐ B. $\frac{2}{5} \div \frac{4}{5}$ ☐ D. $\frac{3}{8} \div \frac{3}{4}$

- 9) A submarine is at -245 meters. It rises 35 meters. What is its new depth?

☐ A. -280 m ☐ C. 210 m
☐ B. -210 m ☐ D. 280 m



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 C is correct.** (7.RP.1-7.RP.3) Gallons needed: $350 \div 28 = 12.5$ gallons. Total cost: $12.5 \times 3.20 = 40$ dollars.
- 2) **Choice D is correct.** (7.NS.1-7.NS.3) $11 - (-6) = 11 + 6 = 17$.
- 3) **Choice D is correct.** (7.RP.1-7.RP.3) Actual dimensions: $4 \times 10 = 40$ feet; $2.5 \times 10 = 25$ feet. Perimeter = $2(40 + 25) = 130$ feet.
- 4) **The correct answer is $\frac{1}{3}$.** (7.RP.1-7.RP.3) The constant is $k = \frac{y}{x} = \frac{2}{6} = \frac{1}{3}$.
- 5) **Choice D is correct.** (7.RP.3) 5% of 200 is $0.05 \times 200 = 10$.
- 6) **Choice D is correct.** (7.RP.3) Discount amount = $60 - 36 = \$24$. Percent = $(24/60) \times 100 = 40\%$.
- 7) **Choice D is correct.** (7.NS.1b) We have 3 positive and 5 negative chips. The 3 positive chips pair with 3 of the negative chips and cancel. This leaves $5 - 3 = 2$ negative chips (representing -2). Thus $3 + (-5) = -2$.
- 8) **Choice A is correct.** (7.EE.1) Combine: $(-3 - 4 + 2)p = -5p$. All terms are like terms with variable p .
- 9) **Choice B is correct.** (7.SP.1-7.SP.4) 50% of $360^\circ = 0.50 \times 360^\circ = 180^\circ$.
- 10) **Choice B is correct.** (7.NS.1-7.NS.3) Common denominator is 12: $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$.
- 11) **Choice B is correct.** (7.NS.2d) Divide $11 \div 50 = 0.22$. Since $50 = 2 \times 5^2$, the result is terminating.
- 12) **Choice D is correct.** (7.RP.1-7.RP.3) Unit rate = $\frac{5/6}{1/3} = \frac{5}{6} \times 3 = \frac{15}{6} = \frac{5}{2} = 2.5$ gal/min.
- 13) **Choice D is correct.** (7.RP.1-7.RP.3) The ratio is $y/x = 2/6 = 1/3$. For a fourth point: $y = \frac{x}{3}$. Check: $(15, 5)$ gives $5 = \frac{15}{3}$ (correct).
- 14) **Choice C is correct.** (7.RP.1-7.RP.3) Unit rate = $4 \div 3 \approx 1.33$ miles per hour (or exactly $\frac{4}{3}$ miles per hour).
- 15) **Choice D is correct.** (7.RP.3) Surplus = $\$1,500 - \$1,200 = \$300$. To savings = $60\% \times \$300 = \180 .
- 16) **Choice C is correct.** (7.NS.1-7.NS.3) $(-360) \div 4 = -90$ indicates each person's debt (or share) is \$90 (or $-\$90$ in ledger terms).
- 17) **Choice B is correct.** (7.NS.1-7.NS.3) $\frac{1}{8} \times 480 = \frac{480}{8} = 60$ gallons lost.
- 18) **Choice B is correct.** (7.NS.1-7.NS.3) Total volume = $\frac{3}{8} + \frac{5}{8} = \frac{8}{8} = 1$ liter.
- 19) **Choice B is correct.** (7.NS.1-7.NS.3) Place the decimal after the first digit: 2.4. Count places moved: 7 places left, so exponent is 7. Proper scientific notation requires $1 \leq a < 10$.
- 20) **The correct answer is A,D.** (7.RP.1-7.RP.3) Options A and D are the two correct answers. A is true because $y = kx = 2x$ is the equation for any proportional relationship with $k = 2$. D is true because substituting $x = 2$ into $y = 2x$ gives $y = 4$. All other options are false.
- 21) **The correct answer is 150.** (7.RP.3) Calculate $\frac{3}{5} \times 250 = \frac{3 \times 250}{5} = \frac{750}{5} = 150$ students.
- 22) **Choice C is correct.** (7.NS.1-7.NS.3) $\sqrt{144} = 12$ inches since $12 \times 12 = 144$.
- 23) **Choice B is correct.** (7.EE.1-7.EE.2) Expanding $3(2x + 5)$ gives $3 \cdot 2x + 3 \cdot 5 = 6x + 15$.
- 24) **Choice C is correct.** (7.SP.5-7.SP.8) Each spin is independent: $P(A) = \frac{1}{4}$ and $P(B) = \frac{1}{4}$, so $P(A \text{ and then } B) = \frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$.
- 25) **Choice B is correct.** (7.NS.2) $3 \times 0.5 = 1.5$. Positive times positive is positive.
- 26) **Choice D is correct.** (7.RP.3) Commission = commission rate $\times$ trade value = $0.005 \times 8000 = \$40$.
- 27) **Choice B is correct.** (7.SP.1-7.SP.4) Students with < 35 min: 20, 25, 28, 29, 32 (from stems 2 and first leaf of 3). Total: 5 students.
- 28) **The correct answer is 0.03.** (7.RP.3) $240 = 2000 \times r \times 4 \Rightarrow 240 = 8000r \Rightarrow r = 0.03$.
- 29) **Choice D is correct.** (7.RP.3) Year 2 balance: $420 \times 1.05 = 441$. Interest earned: $441 - 420 = 21$.
- 30) **Choice D is correct.** (7.G.4-7.G.6) Decompose into a rectangle and a triangle. Rectangle: $6 \times 4 = 24 \text{ m}^2$. Triangle: $\frac{1}{2} \times 6 \times 3 = 9 \text{ m}^2$. Add: $24 + 9 = 33 \text{ m}^2$.
- 31) **Choice D is correct.** (7.RP.3) Interest = $0.02 \times 500 = \$10$ in one year.



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 5 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 **5** 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:

5 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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