

8

Florida FAST

GRADE 7

MATH

PRACTICE TESTS



**Standards Aligned
Problem Solving**

For Comprehensive
Assessment Programs



**8 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 SKILLS



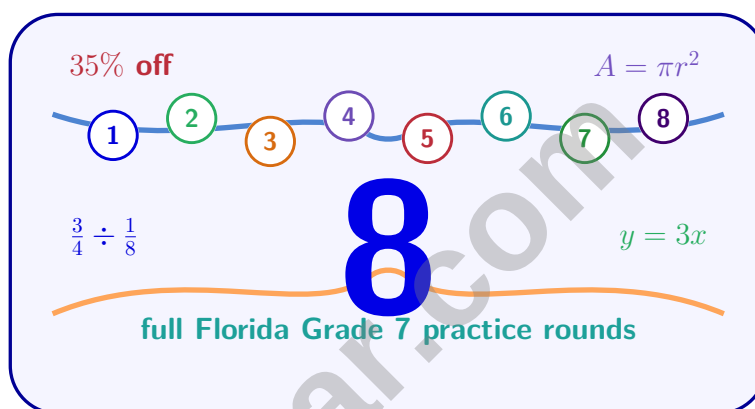
THINK SMARTER



BE TEST-READY

8 Florida FAST Grade 7 Math Practice Tests

A steady route through Florida Grade 7 ratios, rational numbers, algebra, measurement, statistics, and probability



Eight 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!

Eight focused rounds for sharper FAST math thinking

This book gives you eight 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

An eight-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?

Eight FAST tests, 320 questions, and a complete review path

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Tests 7–8	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
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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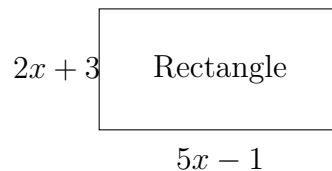
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- 1) A student earns \$15 per hour working part-time. After working 30 hours, they earn \$450. The student's employer withholds 20% for taxes. What is the net pay?

☐ A. \$300☐ C. \$360☐ B. \$330☐ D. \$390

- 2) A rectangle has width $(2x + 3)$ cm and length $(5x - 1)$ cm. What is the perimeter expression?

☐ A. $14x + 4$ ☐ C. $10x - 2$ ☐ B. $7x + 2$ ☐ D. $14x + 2$

- 3) Naomi buys 3 books at \$8 each and a \$5 bookmark. Let t be her total cost. Which equation models this situation?

☐ A. $t = 3 + 8 + 5$ ☐ C. $t = 3(8) + 5$ ☐ B. $t = 3(8 + 5)$ ☐ D. $t = 3 + 8 \times 5$

- 4) Solve: $7x + 3 = 31$

☐ A. $x = 2$ ☐ C. $x = 5$ ☐ B. $x = 4$ ☐ D. $x = 9$

- 5) Solve for x : $2(x - 5) = 14$

☐ A. $x = 7$ ☐ C. $x = 9$ ☐ B. $x = 12$ ☐ D. $x = 5$ 

6) Solve: $\frac{2}{3}x + 4 = 10$ and verify using the reciprocal property.

☐ A. $x = 3$

☐ C. $x = 9$

☐ B. $x = 6$

☐ D. $x = 12$

7) An athlete's personal record was 12 seconds. After training, the record improved to 10.56 seconds. What is the percent decrease in time?

8) Solve: $5x - 2 \geq 18$

☐ A. $x \geq 4$

☐ C. $x \geq 20$

☐ B. $x \leq 4$

☐ D. $x > 4$

9) A scale drawing uses a scale of 1 cm : 4 m. In the drawing, a wall is 7 cm long. What is the actual length of the wall?

☐ A. 3 m

☐ C. 28 m

☐ B. 11 m

☐ D. 32 m

10) A rectangular baseball diamond plot is measured as 40 meters by 40 meters. An engineer creates a scale drawing with scale 1 cm : 5 m. What are the dimensions of the drawing?

☐ A. 4 cm by 4 cm

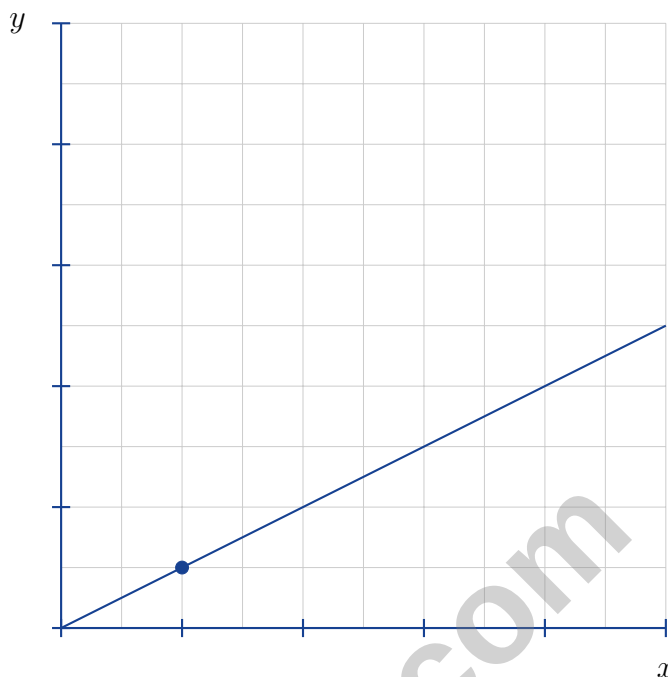
☐ C. 40 cm by 40 cm

☐ B. 8 cm by 8 cm

☐ D. 80 cm by 80 cm



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11)

The graph shows a proportional relationship. What is the unit rate (the value of y at $x = 1$)?

☐ A. 5

☐ C. 2

☐ B. 1

☐ D. 0.5

- 12) A student compares two savings strategies over one year: Strategy X saves \$50 per month (no interest); Strategy Y saves \$30 per month and earns 5% interest yearly on the balance. Strategy X saves $\$50 \times 12 = \600 total. Strategy Y saves $\$30 \times 12 = \360 principal. Which strategy provides more total value?

☐ A. Strategy X (larger amount saved)

☐ C. Both provide equal value

☐ B. Strategy Y (interest helps close the gap)

☐ D. Cannot determine without knowing the interest


1) A cylinder with radius 2 cm and height 8 cm is cut by a plane that makes a 45° angle with the base. What is the shape of the cross-section?

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

2) A young professional budgets \$3,600 monthly. Housing is \$1,200, food is \$400, utilities are \$300, transportation is \$200. The rest goes to savings and entertainment. How much is available for savings and entertainment?

- ☐ A. \$900 ☐ C. \$1,500
☐ B. \$1,200 ☐ D. \$1,800

3) A rectangle is inscribed in a circle. One side is 8 cm and an adjacent side is 6 cm. Is there a unique rectangle that satisfies these conditions?

- ☐ A. Yes, exactly one ☐ C. No, but there are exactly two
☐ B. No, infinitely many ☐ D. No rectangle fits these conditions

4) A cylindrical pipe has a volume of 565.2 cubic feet, a radius of 3 feet, and an unknown height. What is the height of the pipe? Use $\pi \approx 3.14$.

5) Two fair dice are rolled as a simulation of a compound event. If “success” is rolling a sum of 7, which of the following correctly identifies all successful outcomes?

- ☐ A. (1, 7), (2, 7), (3, 7), (4, 7), (5, 7), (6, 7) — six outcomes ☐ C. (1, 6), (2, 5), (3, 4) — three outcomes
☐ B. (1, 6), (2, 5), (3, 4), (4, 3), (5, 2), (6, 1) — six outcomes ☐ D. Any roll where one die shows 7 — multiple outcomes



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6) A scatter plot shows the relationship between the price of a bicycle (x-axis, in dollars) and the number sold per month (y-axis). The points show a downward trend. What does this suggest?

- ☐ A. Expensive bikes never sell ☐ C. Price and sales are unrelated
☐ B. Lower-priced bikes tend to sell more ☐ D. The store should lower all prices

7) A bag contains 35 marbles. The probability of drawing a specific color is $\frac{5}{7}$. How many marbles of that color are in the bag?

- ☐ A. 5 ☐ C. 25
☐ B. 15 ☐ D. 30

8) A letter is drawn from the word MATH, and then a number is chosen from 1 to 5. How many outcomes are in the sample space?

Letters: M, A, T, H Numbers: 1, 2, 3, 4, 5

- ☐ A. 9 ☐ C. 20
☐ B. 15 ☐ D. 25

9) What is $P(A \text{ and } B)$ if event A has probability $\frac{1}{3}$ and event B has probability $\frac{1}{4}$, and the events are independent?

- ☐ A. $\frac{1}{7}$ ☐ C. $\frac{1}{12}$
☐ B. $\frac{2}{7}$ ☐ D. $\frac{7}{12}$

10) Which pair correctly matches likelihood terms with their probabilities?

- ☐ A. Impossible = 0.5, Certain = 0.5 ☐ C. Impossible = -1, Certain = 2
☐ B. Impossible = 0, Certain = 1 ☐ D. Impossible = 1, Certain = 0



1) 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

2) A container has 40 items: 16 are red, 14 are blue, and 10 are green. A student calculates $P(\text{red}) = \frac{16}{40}$, then simplifies to $\frac{2}{5}$. Is this correct?

☐ A. No; the correct simplified form is $\frac{1}{5}$.

☐ C. No; it should stay as $\frac{16}{40}$.

☐ B. Yes; $\frac{16}{40} = \frac{2}{5}$.

☐ D. No; the correct form is $\frac{4}{10}$.

3) A letter is chosen from the word PROBABILITY. Find $P(\text{letter B})$.

☐ A. $\frac{1}{11}$

☐ C. $\frac{1}{2}$

☐ B. $\frac{2}{11}$

☐ D. $\frac{1}{5}$

4) Arrange these products from smallest to largest: $(-3) \times 4$, $(-2) \times (-5)$, 1×6 , $(-4) \times (-2)$.

☐ A. $(-3) \times 4, (-2) \times (-5), 1 \times 6, (-4) \times (-2)$

☐ C. $(-2) \times (-5), (-4) \times (-2), 1 \times 6, (-3) \times 4$

☐ B. $(-3) \times 4, 1 \times 6, (-2) \times (-5), (-4) \times (-2)$

☐ D. $(-3) \times 4, (-2) \times (-5), (-4) \times (-2), 1 \times 6$

5) A truck travels 350 miles and uses 25 gallons of gas. If gas costs \$3.50 per gallon, what is the cost per mile?

☐ A. \$0.20 per mile

☐ C. \$0.30 per mile

☐ B. \$0.35 per mile

☐ D. \$0.25 per mile



6) Which is the simplest form of $-6 - (-4)$?

☐ A. -10

☐ C. 2

☐ B. 10

☐ D. -2

7) Simplify: $\frac{3}{5}x + \frac{2}{5}x$

☐ A. x

☐ C. $\frac{6}{5}x$

☐ B. $\frac{5}{10}x$

☐ D. $\frac{1}{5}x$

8) A jacket on sale costs \$51. The original price was \$60. What percent discount was applied?

9) A student factors $-8m - 12$ and gets $-4(2m + 3)$. Is this correct?

☐ A. Yes; $-4(2m + 3) = -8m - 12$

☐ D. No; the correct factorization is $-4(2m - 3)$

☐ B. No; the GCF should be -2

☐ C. No; the correct factorization is $4(2m + 3)$

10) A cube has surface area 150 cm^2 . What is the edge length of the cube?

☐ A. 5 cm

☐ C. 25 cm

☐ B. 6 cm

☐ D. 30 cm



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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.3) Gross pay: $15 \times 30 = \$450$. Tax withheld: $0.20 \times 450 = \$90$. Net pay: $\$450 - \$90 = \$360$.
- 2) **Choice A is correct.** (7.EE.1-7.EE.2) Perimeter = $2(5x - 1) + 2(2x + 3) = 10x - 2 + 4x + 6 = 14x + 4$.
- 3) **Choice C is correct.** (7.EE.4a) The books cost $3 \times 8 = \$24$ and the bookmark adds \$5, so $t = 3(8) + 5 = 29$.
- 4) **Choice B is correct.** (7.EE.3-7.EE.4) Subtract 3: $7x = 28$. Divide by 7: $x = 4$.
- 5) **Choice B is correct.** (7.EE.4a) Distribute: $2x - 10 = 14$. Add 10: $2x = 24$. Divide by 2: $x = 12$.
- 6) **Choice C is correct.** (7.EE.3-7.EE.4) Subtract 4: $\frac{2}{3}x = 6$. Multiply by $\frac{3}{2}$ (reciprocal): $x = 6 \times \frac{3}{2} = 9$. Check: $\frac{2}{3}(9) + 4 = 6 + 4 = 10$ ✓.
- 7) **The correct answer is 12%.** (7.RP.3) Percent decrease = $\frac{12-10.56}{12} \times 100\% = \frac{1.44}{12} \times 100\% = 12\%$.
- 8) **Choice A is correct.** (7.EE.4b) Add 2: $5x \geq 20$. Divide by 5: $x \geq 4$.
- 9) **Choice C is correct.** (7.G.1-7.G.5) Multiply the drawing length by the scale: $7 \times 4 = 28$ m.
- 10) **Choice B is correct.** (7.G.1-7.G.5) Divide by scale: $40 \text{ m} \div 5 \text{ m/cm} = 8 \text{ cm}$ for both dimensions.
- 11) **Choice D is correct.** (7.RP.1-7.RP.3) A proportional relationship passes through the origin. The marked point is (2, 1), so the unit rate $k = 1/2 = 0.5$. The line equation is $y = 0.5x$.
- 12) **Choice A is correct.** (7.RP.3) Strategy X: \$600 (no interest). Strategy Y: $\$360 + (5\% \times \$360) \approx \$360 + \$18 = \$378$ total. Strategy X provides more total value ($\$600 > \378), showing that saving more per month outweighs the benefit of interest—a key Grade-7 investment trade-off: higher savings frequency can beat lower savings with interest.
- 13) **Choice A is correct.** (7.NS.1-7.NS.3) $x = 9 \times \frac{2}{3} = 6$.
- 14) **Choice B is correct.** (7.EE.1-7.EE.2) An odd exponent preserves the sign of the base: $(-2)^3 = (-2) \cdot (-2) \cdot (-2) = -8$.
- 15) **Choice A is correct.** (7.EE.1-7.EE.2) $\text{gcd}(20, 30) = 10$, so $10(2x + 3)$ factors out the greatest common factor completely.
- 16) **Choice A is correct.** (7.SP.5-7.SP.8) There are 3 sections labeled C out of 6 equal sections, so $P(C) = \frac{3}{6} = \frac{1}{2}$.
- 17) **Choice A is correct.** (7.NS.2) $-\frac{7}{8} \times 8 = -\frac{7 \times 8}{8} = -7$. The 8's cancel.
- 18) **Choice D is correct.** (7.RP.3) Total fees = $0.25 + 15.00 + 2.50 + 8.00 = \25.75 .
- 19) **The correct answer is $8\frac{1}{4}$.** (7.NS.1-7.NS.3) Total distance = $4\frac{1}{2} + 3\frac{3}{4} = \frac{9}{2} + \frac{15}{4} = \frac{18}{4} + \frac{15}{4} = \frac{33}{4} = 8\frac{1}{4}$ miles.
- 20) **Choice D is correct.** (7.RP.1-7.RP.3) Apples: $5 \times \$0.60 = \3.00 . Oranges: $3 \times \$1.20 = \3.60 . Total: $\$3.00 + \$3.60 = \$6.60$.
- 21) **Choice C is correct.** (7.G.4-7.G.6) Decompose into two shapes: Rectangle area = $8 \times 5 = 40 \text{ ft}^2$; square area = $3 \times 3 = 9 \text{ ft}^2$. Add the areas: $40 + 9 = 49 \text{ ft}^2$.
- 22) **The correct answer is B,C.** (7.RP.3) Estimate 1: $\frac{|30-40|}{40} \times 100\% = 25\%$. Estimate 2: $\frac{|45-50|}{50} \times 100\% = 10\%$. Estimate 3: $\frac{|60-80|}{80} \times 100\% = 25\%$. Therefore B (Estimate 2 most accurate) and C (same error for 1 and 3) are correct. A is false (2 is more accurate). D is false (1 and 3 are equal, not 3 better).
- 23) **Choice A is correct.** (7.G.4-7.G.6) Base area = $\frac{1}{2}(5 + 4) \times 3 = \frac{1}{2} \times 9 \times 3 = 13.5 \text{ cm}^2$. Volume = $13.5 \times 7 = 94.5 \text{ cm}^3$.
- 24) **Choice C is correct.** (7.G.1-7.G.5) For a triangle with two sides of 10 m: $|10 - 10| < c < 10 + 10$ gives $0 < c < 20$. Only 15 m satisfies this range.
- 25) **Choice C is correct.** (7.G.4-7.G.6) The three chords are: AB (diameter), CD (diameter), and AC. Each connects two points on the circle.
- 26) **Choice C is correct.** (7.G.1-7.G.5) Triangle Inequality requires: $x + x > 11$, so $x > 5.5$. The other conditions $11 + x > x$ and $x + 11 > x$ are always true. There is no upper bound on x from the Triangle Inequality.
- 27) **The correct answer is 8.** (7.EE.1) The expression simplifies to $m + 2n$. With $m = 2$ and $n = 3$, the value is $2 + 6 = 8$.
- 28) **Choice C is correct.** (7.SP.1-7.SP.4) $\frac{16}{100} = \frac{x}{8000}$. So $x = 0.16 \times 8000 = 1280$.
- 29) **Choice D is correct.** (7.NS.1-7.NS.3) Descending (going down) below sea level is represented by a negative number. A descent of 40 feet is -40 .
- 30) **Choice D is correct.** (7.RP.3) Markup = $0.75 \times 40 = \$30$. Selling price = $40 + 30 = \$70$.



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Hi, Strategy Solver!

◇ Grade 7 math rewards students who think before they calculate. You practiced choosing strategies, not just hunting for answers. This wide-ranging book gave you eight serious Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. ◇

★ **Remember this:** That matters because stronger math students do not use one method for every question. They notice the structure and choose the tool that fits. ★

Strategy Moves

- **Estimate:** Know the neighborhood of the answer.
- **Simplify:** Rewrite numbers in friendlier forms.
- **Model:** Draw what the words describe.
- **Verify:** Put the answer back into the problem.

Grade 7 test-day tip: Pause for ten seconds before hard questions. A short plan can save several minutes.

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

Jay Daie

Your Strategy Guide

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **8** 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:

8 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer 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



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

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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BRIGHTLY