

10 Florida FAST

GRADE
7
MATH

PRACTICE TESTS

Standards Aligned Problem
Solving For Comprehensive
Assessment Programs



10 PRINTED TESTS

Realistic practice to build
confidence and mastery



2 ONLINE TESTS

Extra practice for
continued success



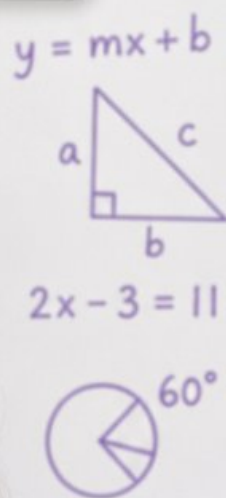
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step
solutions



FOCUSED & EFFECTIVE

Target key math skills
with purposeful practice



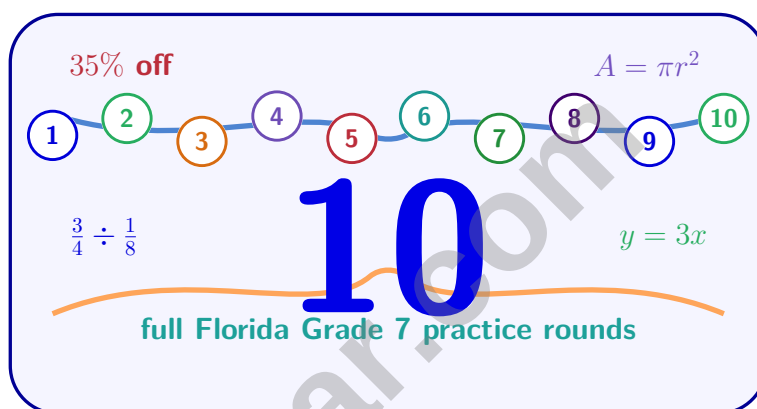
10 PRINTED TESTS
+2 ONLINE TESTS

Use these two additional online practice
tests for extra review after the printed
tests in this book.

PRACTICE ★ REVIEW ★ SUCCEED

10 Florida FAST Grade 7 Math Practice Tests

Florida Grade 7 FAST Practice for sunlit practice for percent reasoning, rational numbers, equations, geometry, data, and probability



Ten 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!

Ten focused rounds for sharper Florida FAST math thinking

This book gives you ten 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 ten-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?

Ten Florida FAST tests, 400 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 7–9	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Test 10	A final Florida round to show growth across the whole book.
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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1) A jar contains 6 white and 4 black balls. Two balls are drawn WITH replacement. What is the probability both are white?

☐ A. $\frac{9}{25}$
☐ B. $\frac{12}{40}$

☐ C. $\frac{8}{25}$
☐ D. $\frac{24}{100}$

2) A store advertises “Buy at \$60, save \$12.” What percent discount is being offered?

☐ A. 12%
☐ B. 20%

☐ C. 25%
☐ D. 60%

3) Maria’s bank account has a balance of \$85.50. She withdraws \$12.75 twice in one week. What is her new balance?

☐ A. \$59.00
☐ B. \$72.75

☐ C. \$60.00
☐ D. \$97.00

4) What is $\frac{2}{3} \times \frac{5}{6}$?

☐ A. $\frac{7}{9}$
☐ B. $\frac{10}{18}$

☐ C. $\frac{10}{9}$
☐ D. $\frac{30}{2}$

5) What does MAD (Mean Absolute Deviation) measure?

☐ A. The average distance of data points from the mean
☐ B. The middle value in an ordered dataset

☐ C. The most frequently occurring value
☐ D. The difference between max and min



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6) A line plot shows the number of goals scored by 15 soccer players this season:

Goals | 2 2 3 3 3 4 4 4 4 5 5 6 6 7 9

Which statement best describes the data?

- ☐ A. The data shows a uniform distribution with all scores equally common
- ☐ B. Most players scored between 3 and 5 goals, with one outlier at 9
- ☐ C. All players scored at least 2 goals, with the median at 4
- ☐ D. The mode is 4 goals, appearing 4 times
- 7) A menu offers 4 drinks, 6 main courses, and 3 desserts. How many complete meals can be ordered if you choose one of each?
- ☐ A. 13
- ☐ B. 24
- ☐ C. 72
- ☐ D. 84
- 8) The circumference of a circle is 50.24 meters. Using $\pi \approx 3.14$, find the diameter.

- 9) A coin is flipped and a die is rolled together in a compound experiment. Out of 240 trials, heads AND rolling a 5 occurred 18 times. What is the experimental probability of both events?
- ☐ A. $\frac{1}{12}$
- ☐ B. $\frac{18}{240}$
- ☐ C. 0.10
- ☐ D. $\frac{1}{8}$



- 10) Given raw data: 51, 54, 58, 61, 64, 68, 71, 75. In a stem-and-leaf plot, what is the correct representation?
- ☐ A. Stem 5: 1, 4, 8; Stem 6: 1, 4, 8; Stem 7: 1, 5
- ☐ B. Stem 5: 1, 4, 5, 8; Stem 6: 1, 4; Stem 7: 1, 5
- ☐ C. Stem 5: 1, 4, 8; Stem 6: 1, 4; Stem 7: 1, 5, 8
- ☐ D. Stem 5: 51, 54, 58; Stem 6: 61, 64; Stem 7: 71, 75
- 11) Which likelihood term describes a probability of 0.1?
- ☐ A. Certain
- ☐ B. Likely
- ☐ C. Unlikely
- ☐ D. Even chance
- 12) A student estimated a test to have 48 questions, but it actually had 60 questions. What is the percent error?
- ☐ A. 25%
- ☐ B. 75%
- ☐ C. 12%
- ☐ D. 20%
- 13) Expand: $\frac{1}{4}(8b - 12)$
- ☐ A. $2b - 3$
- ☐ B. $2b - 12$
- ☐ C. $8b - 3$
- ☐ D. $2b - 4$
- 14) 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



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1) Three independent random samples of a population all estimate the proportion of people who prefer a certain product:

- Sample A ($n = 100$): 40% prefer the product
- Sample B ($n = 100$): 42% prefer the product
- Sample C ($n = 100$): 38% prefer the product

What does the slight variation in results between samples suggest?

- ☐ A. The three samples were not randomly selected
- ☐ B. There is sampling variability; different random samples naturally show slightly different results
- ☐ C. The true population proportion is exactly 40%
- ☐ D. These results are unreliable and should be ignored

2) A student mistakenly writes: “Stem 2 with leaves 3, 5, 7 represents 3, 5, 7.” What is the error?

- ☐ A. The leaves are not in ascending order
- ☐ B. The student forgot to combine the stem with each leaf
- ☐ C. The stems and leaves are reversed
- ☐ D. There is no error; the representation is correct

3) A school had 360 students. If $\frac{1}{3}$ of them attend the science club, what percent is that?



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4) A rectangular prism has dimensions 2.5 m, 4 m, and 8 m. What is its volume?

☐ A. 14.5 m^3

☐ B. 80 m^3

☐ C. 100 m^3

☐ D. 20 m^3

5) A student claims that $4xy + 2xy = 6x^2y^2$. What is the error?

☐ A. There is no error.☐ B. The answer should be negative.☐ C. The exponents should not have been increased.☐ D. The coefficients were not added.

6) Factor completely: $15x + 35$

☐ A. $5(3x + 7)$

☐ B. $7(2x + 5)$

☐ C. $15(x + 2.33)$

☐ D. $3(5x + 11.67)$

7) A square pyramid has a square base with side 5 cm and slant height 6.5 cm. Find the total surface area.

☐ A. 25 cm^2

☐ B. 50 cm^2

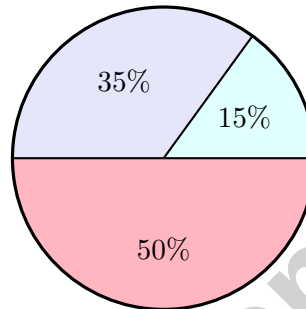
☐ C. 90 cm^2

☐ D. 115 cm^2

8) A principal of \$1500 earns \$180 in simple interest at 6% annually. For how many years was the money invested?



- 1) The graph shows a proportional relationship that passes through the origin and the point (2, 14). What unit rate is represented by the graph?

☐ A. 2☐ C. $\frac{1}{7}$ ☐ B. 14☐ D. 7

2)

The circle graph shows water usage distribution. Cyan represents outdoor watering (15%), lavender is indoor usage (35%), and pink is other uses (50%). If the household uses 300 gallons per day, how many gallons are used for outdoor watering?

☐ A. 15 gallons☐ C. 105 gallons☐ B. 45 gallons☐ D. 150 gallons

- 3) Which sampling method is most likely to produce a representative sample for estimating the average test score across all seventh-grade classes in a school?

☐ A. Test only the honor students☐ C. Test the first 30 students who turn in their tests☐ B. Randomly select 5 students from each seventh-grade class☐ D. Ask for volunteers to take an extra test

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4) An online store charges \$9.99 per item plus a fixed shipping cost of \$5.99. If the total order is \$54.95, how many items were ordered? Which equation is correct?

☐ A. $5.99x + 9.99 = 54.95$

☐ C. $9.99x + 5.99 = 54.95$

☐ B. $9.99 + 5.99x = 54.95$

☐ D. $x(9.99 + 5.99) = 54.95$

5) Which equation matches the description: “A number is multiplied by 5, then 12 is subtracted, and the result is 28”?

☐ A. $5x - 12 = 28$

☐ C. $12 - 5x = 28$

☐ B. $5x + 12 = 28$

☐ D. $\frac{x}{5} - 12 = 28$

6) Solve for x : $5(x + 3) = 2x + 36$

☐ A. $x = 3$

☐ C. $x = 7$

☐ B. $x = 5$

☐ D. $x = 9$

7) A taxi charges \$3 per mile plus a \$2 fee. If a trip costs \$17, how many miles was the trip? Check your answer is reasonable.

☐ A. 3 miles

☐ C. 6 miles

☐ B. 5 miles

☐ D. 8 miles

8) A map scale is given as 2 in : 5 miles. If the actual distance between two points is 20 miles, what is the distance on the map?

☐ A. 4 in

☐ C. 8 in

☐ B. 6 in

☐ D. 10 in



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 A is correct.** (7.SP.5-7.SP.8) With replacement: $P(\text{both white}) = \frac{6}{10} \cdot \frac{6}{10} = \frac{36}{100} = \frac{9}{25}$.
- 2) **Choice B is correct.** (7.EE.3-7.EE.4) Discount % = $\frac{\text{savings}}{\text{original}} \times 100 = \frac{12}{60} \times 100 = 20\%$.
- 3) **Choice A is correct.** (7.NS.1-7.NS.3) Two withdrawals: $-\$12.75 - \$12.75 = -\$25.50$. New balance: $\$85.50 - \$25.50 = \$59.00$.
- 4) **Choice B is correct.** (7.NS.2) $\frac{2}{3} \times \frac{5}{6} = \frac{2 \times 5}{3 \times 6} = \frac{10}{18} = \frac{5}{9}$ (simplified). Multiply numerators and denominators, then reduce.
- 5) **Choice A is correct.** (7.SP.1-7.SP.4) MAD is the average of the absolute deviations from the mean, measuring typical spread around the center. It is not a measure of center (B, C) or range (D).
- 6) **Choice D is correct.** (7.SP.1-7.SP.4) Counting occurrences: 2 (twice), 3 (three times), 4 (four times), 5 (twice), 6 (twice), 7 (once), 9 (once). The value 4 appears most frequently, making it the mode.
- 7) **Choice C is correct.** (7.SP.5-7.SP.8) By the counting principle: $4 \times 6 \times 3 = 72$ complete meal combinations.
- 8) **The correct answer is 16 m.** (7.G.4-7.G.6) $C = \pi d \Rightarrow 50.24 = 3.14d \Rightarrow d = 50.24 \div 3.14 = 16$ m.
- 9) **Choice B is correct.** (7.SP.6) Experimental probability of both heads and rolling a 5: $\frac{18}{240} = \frac{3}{40} = 0.075$. The theoretical probability would be $\frac{1}{2} \times \frac{1}{6} = \frac{1}{12} \approx 0.083$, close to but not exactly the experimental result.
- 10) **Choice A is correct.** (7.SP.1-7.SP.4) Data 51, 54, 58, 61, 64, 68, 71, 75 maps: Stem 5: 1, 4, 8; Stem 6: 1, 4, 8; Stem 7: 1, 5. Answer A is correct.
- 11) **Choice C is correct.** (7.SP.5-7.SP.8) A probability of 0.1 is very low, so the event is unlikely to occur.
- 12) **Choice D is correct.** (7.RP.3) Percent error = $\frac{|48-60|}{60} \times 100\% = \frac{12}{60} \times 100\% = 20\%$.
- 13) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute $\frac{1}{4}$: $\frac{1}{4}(8b) - \frac{1}{4}(12) = 2b - 3$.
- 14) **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.
- 15) **Choice D is correct.** (7.RP.1-7.RP.3) Multiply each dimension by 0.75: $8 \times 0.75 = 6$ inches; $10 \times 0.75 = 7.5$ inches.
- 16) **The correct answer is 343.** (7.G.4-7.G.6) $V = s^3 = 7^3 = 343 \text{ ft}^3$.
- 17) **Choice C is correct.** (7.RP.3) 75% of 20 is $0.75 \times 20 = 15$ games.
- 18) **Choice A is correct.** (7.NS.1b) Combine step-by-step: $-5 + 9 = 4$, then $4 + (-4) = 0$. The negatives and positives cancel out.
- 19) **Choice A is correct.** (7.EE.1) Combine like terms: $(4p + 2p) + (6q - q) = 6p + 5q$.
- 20) **The correct answer is A,D.** (7.G.4-7.G.6) Choice A gives the correct formula. Choice D is verified: $3.14 \times 5^2 = 78.5 \text{ cm}^2$. B confuses formula with circumference. C forgets that area scales with the square of the radius. E mistakes semicircle (half) for one-third.
- 21) **Choice A is correct.** (7.EE.1-7.EE.2) The rectangle has length $3x + 5$ and area $9x + 15$. Height must be 3, which is the GCF.
- 22) **Choice B is correct.** (7.SP.1-7.SP.4) 40% of 80 = $0.40 \times 80 = 32$ households.
- 23) **Choice C is correct.** (7.EE.1-7.EE.2) Substitute: $3(2 + (-3)) = 3(-1) = -3$.
- 24) **Choice B is correct.** (7.SP.1-7.SP.4) A random sample from the entire teenage population avoids limiting to one location or event. The other options miss large portions of the teenage population.
- 25) **Choice D is correct.** (7.RP.3) Account B at 6% earns more growth than Account A at 4% over the same period. The chart reflects this with the higher bar for Account B at Month 6.
- 26) **The correct answer is 10.67.** (7.G.4-7.G.6) $V = \pi r^2 h \Rightarrow 301.44 = 3.14 \times 9 \times h \Rightarrow 301.44 = 28.26h \Rightarrow h \approx 10.67$ inches.
- 27) **The correct answer is 75–85.** (7.SP.3) Overlap at 75–85 demonstrates that distributions can have different centers and spreads while still sharing common values. A higher median does not mean every value in one group exceeds every value in the other.
- 28) **Choice A is correct.** (7.NS.1-7.NS.3) $0.8 - 1.2 = -0.4$.



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Hi, Math Hero!

◇ This full-length book gave you ten complete Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. You showed up for Grade 7 practice again and again. That is what real growth looks like: steady effort, honest review, and a willingness to try. ◇

★ **Remember this:** A math hero is not someone who never misses a question. A math hero learns from the miss and comes back stronger. ★

Hero Habits

- **Courage:** You try problems that are not automatic.
- **Honesty:** You review what needs work.
- **Patience:** You let skills grow over time.
- **Pride:** You recognize the effort you gave.

Grade 7 test-day tip: Save one solved problem you are proud of. Looking back at progress helps motivation stay strong.

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

Jay Daie

Your Math Hero Guide

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 10 full-length Math practice tests and 2 extra 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:

10 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
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 EXTRA 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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SOLVE
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SUCCEED
BRIGHTLY

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