9 Florida FAST

GRADE 7

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

Program

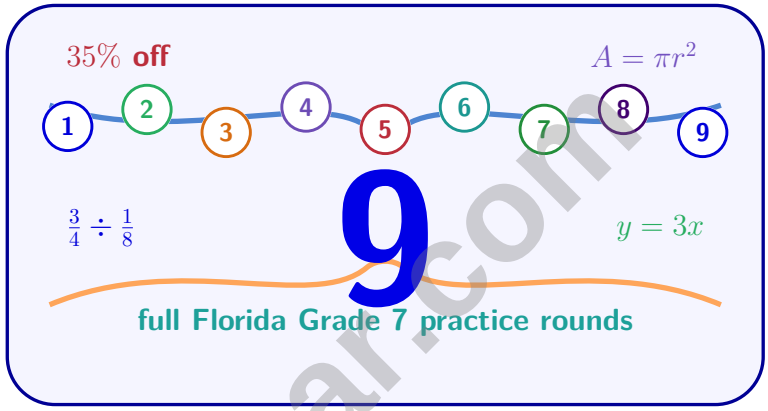
9 PRINTED TESTS + **2 ONLINE TESTS**

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

- **BUILT FOR ACAP** — Standards-Aligned
- **STRENGTHEN SKILLS**
- **SHARPEN THINKING**
- **BE TEST-READY** — Improve Performance

9 Florida FAST Grade 7 Math Practice Tests

Standards-Aligned Florida Practice for Proportional Reasoning, Expressions, Geometry, Statistics, and Probability



Nine 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.

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Welcome, Florida Grade 7 Problem Solver!

Nine focused rounds for sharper FAST math thinking

This book gives you nine 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.

How to Use This Book

A nine-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?

Nine FAST tests, 360 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.
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.

Table of Contents

1) Simplify: $2(5x - 2) - (3x - 4)$.

☐ A. $10x - 4 - 3x - 4 = 7x - 8$
☐ B. $10x - 4 - 3x + 4 = 7x$
☐ C. $7x + 2$
☐ D. $13x - 8$

2) A card is drawn from a standard deck. What is the probability of drawing a king OR a queen?

☐ A. $\frac{4}{52}$
☐ B. $\frac{2}{13}$
☐ C. $\frac{2}{52}$
☐ D. $\frac{1}{26}$

3) A movie theater applies a \$1.50 processing fee to online ticket orders. If a customer buys 4 tickets at \$12 each, what is the total cost?

☐ A. \$48.00
☐ B. \$52.50
☐ C. \$50.00
☐ D. \$49.50

4) Three-digit data in a stem-and-leaf plot with stem 14 and leaves $2, 5, 8$ represents which values?

☐ A. $142, 145, 148$
☐ B. $1402, 1405, 1408$
☐ C. $14.2, 14.5, 14.8$
☐ D. $214, 514, 814$

5) A triangular prism has a base that is a right triangle with legs 10 inches and 6 inches. If the volume is 360 in^3, what is the depth of the prism?

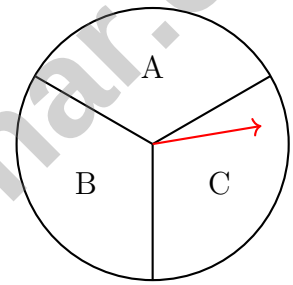
☐ A. 6 in
☐ B. 12 in
☐ C. 15 in
☐ D. 30 in

6) In a circle with radius r, a chord has length r. What can you conclude about this chord?

☐ A. It must be a diameter
☐ B. It is shorter than the diameter
☐ C. It equals the radius
☐ D. It is impossible

7) A survey of 180 farms found 45 grow organic crops. The region has 3600 farms. About how many are expected to grow organic crops?

8) A spinner is divided into 3 equal sections labeled A, B, and C. What is the probability of spinning A?



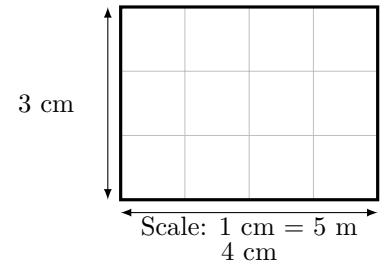
☐ A. $\frac{1}{2}$
☐ B. $\frac{1}{3}$
☐ C. $\frac{2}{3}$
☐ D. 1

9) An investor earns \$450 in simple interest from a \$3000 investment over 3 years. What is the annual interest rate?

☐ A. 4%
☐ B. 7%
☐ C. 6%
☐ D. 5%

10)

Room Floor Plan (scale model)



According to the scale, what are the actual dimensions of this rectangular room?

- ☐ A. 10 m × 20 m
- ☐ B. 4 m × 3 m
- ☐ C. 12 m × 15 m
- ☐ D. 20 m × 15 m

11) A water tank is 40% full. If the tank holds 250 liters, how many liters of water are in it?

- ☐ A. 80 liters
- ☐ B. 150 liters
- ☐ C. 120 liters
- ☐ D. 100 liters

12) A pizza costs $16 before tax. With a 7% sales tax, what is the total cost?

- ☐ A. $16.07
- ☐ B. $23
- ☐ C. $14.88
- ☐ D. $17.12

13) A student evaluates $2x + 3y$ when $x = -4$ and $y = 2$, and writes: "$2(-4) + 3(2) = -8 + 6 = -2$." Is this correct?

- ☐ A. No, the error is in the multiplication of $2x$
- ☐ B. No, the error is in the addition step
- ☐ C. No, negative times positive is positive
- ☐ D. Yes, the answer is -2

1) An event planner receives $\$3,000$ for planning a wedding. She must pay a 12% vendor coordination fee from her earnings. How much does she keep after the fee?

☐ A. \$360
☐ B. $\$2,400$
☐ C. $\$2,640$
☐ D. $\$3,360$

2) What is $-8-(-2)$?

☐ A. -10 (if you add both numbers without flipping the sign)
☐ B. 6 (if you ignore the leading negative)
☐ C. -4 (if you forget to apply the rule)
☐ D. -6 (correct: $-8+2$)

3) Which table shows a proportional relationship between x and y?

Option A:

x	1	2	3	4
y	4	8	12	16

Option B:

x	1	2	3	4
y	2	5	7	10

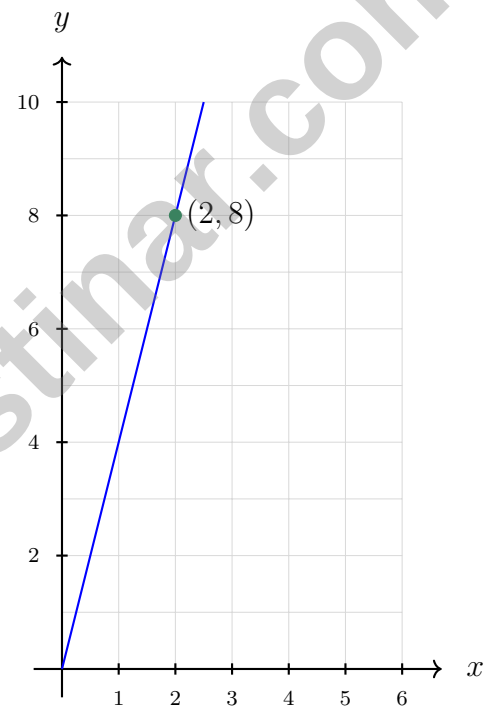
☐ A. Neither
☐ B. Option B only
☐ C. Both A and B
☐ D. Option A only

4) The table shows the relationship between pages read and time. Find the unit rate in pages per hour.

Pages	$\frac{1}{2}$	1	$1\frac{1}{2}$
Hours	$\frac{1}{6}$	$\frac{1}{3}$	$\frac{1}{2}$

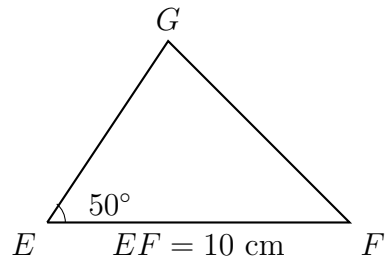
☐ A. $\frac{1}{12}$ pages per hour
☐ B. $\frac{1}{3}$ pages per hour
☐ C. 6 pages per hour
☐ D. 3 pages per hour

5) The graph represents a proportional relationship, $y = kx$. One point on the graph is $(2, 8)$. What is the constant of proportionality, k?



☐ A. 2
☐ B. 8
☐ C. 6
☐ D. 4

1)



Triangle EFG has $EF = 10$ cm and $\angle E = 50°$. To construct this triangle uniquely, we need:

- ☐ A. One more side length
- ☐ B. One more angle measure
- ☐ C. Either another side or another angle
- ☐ D. Nothing; the triangle is already unique

2) The temperature is 5°C and drops 1.2 degrees per hour for 5 hours. What is the final temperature?

3) Solve for x: $-2(3x + 1) = 10$

- ☐ A. $x = -2$
- ☐ B. $x = -1$
- ☐ C. $x = 1$
- ☐ D. $x = 2$

4) A map has a scale of 2 cm : 3 km. If two towns are 10 cm apart on the map, how far apart are they in reality?

- ☐ A. 12 km
- ☐ B. 15 km
- ☐ C. 18 km
- ☐ D. 20 km

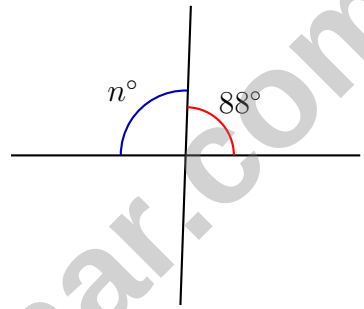
5) A landscape drawing shows a rectangular flower bed 8 inches by 12 inches at scale 1 in : 2 ft. What are the dimensions of the actual flower bed?

☐ A. 2 ft by 3 ft
☐ B. 4 ft by 6 ft
☐ C. 16 ft by 24 ft
☐ D. 32 ft by 48 ft

6) A cube with side length 6 cm is sliced diagonally from one edge to the opposite edge. What is the shape and approximate length of the longer side of the cross-section?

☐ A. Rectangle; $6\sqrt{2} \approx 8.5$ cm
☐ B. Square; 6 cm
☐ C. Triangle; 6 cm
☐ D. Rectangle; 6 cm

7)



Two lines intersect. One angle is 88° and an adjacent angle is n. Find n.

☐ A. 88°
☐ B. 2°
☐ C. 92°
☐ D. 268°

8) A line segment has endpoints at $(1, 2)$ and $(4, 2)$. After a reflection over the x-axis, what is the length of the reflected segment?

☐ A. 3 units
☐ B. 4 units
☐ C. $\sqrt{13}$ units
☐ D. 6 units

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.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice B is correct.** 7.EE.1-7.EE.2 Distribute the 2 and distribute the negative: $10x-4-(3x-4)=10x-4-3x+4$. Combine like terms: $(10x-3x)+(-4+4)=7x+0=7x$. The simplified form shows that the constants cancel, leaving only $7x$.
2) **Choice B is correct.** 7.SP.5-7.SP.8 King OR Queen: $P(\text{King})+P(\text{Queen})=\frac{4}{52}+\frac{4}{52}=\frac{8}{52}=\frac{2}{13}$ (mutually exclusive).
3) **Choice D is correct.** 7.RP.3 Ticket cost $=4\times 12=\$48$. Total $=48+1.50=\$49.50$.
4) **Choice A is correct.** 7.SP.1-7.SP.4 With a two-digit stem (14), leaves are the ones place: $142, 145, 148$.
5) **Choice B is correct.** 7.G.4-7.G.6 Base area $=\frac{1}{2}\times 10\times 6=30$ in^2. Depth $=\frac{V}{B}=\frac{360}{30}=12$ in.
6) **Choice B is correct.** 7.G.4-7.G.6 A chord of length r is shorter than the diameter $d=2r$. Such a chord exists and is a valid chord in the circle.
7) **The correct answer is** 900 **.** 7.SP.1-7.SP.4 $\frac{45}{180}=\frac{x}{3600}$. Reduce: $\frac{1}{4}=\frac{x}{3600}\Rightarrow x=900$.
8) **Choice B is correct.** 7.SP.5-7.SP.8 The spinner has 3 equal sections. Probability of landing on A is $\frac{1}{3}$.
9) **Choice D is correct.** 7.RP.3 $450=3000\times r\times 3\Rightarrow 450=9000r\Rightarrow r=0.05=5\%$.
10) **Choice D is correct.** 7.RP.1-7.RP.3 Using the scale 1 cm = 5 m: width is $4\times 5=20$ m; height is $3\times 5=15$ m.
11) **Choice D is correct.** 7.RP.3 40% of 250 is $0.40\times 250=100$ liters.
12) **Choice D is correct.** 7.RP.3 Tax $=0.07\times 16=\$1.12$. Total $=16+1.12=\$17.12$.
13) **Choice D is correct.** 7.EE.1-7.EE.2 The work is correct: $2(-4)+3(2)=-8+6=-2$.
14) **Choice D is correct.** 7.RP.1-7.RP.3 Each row: $6/2=3$, $12/4=3$, $18/6=3$, $24/8=3$. Constant ratio of 3 dollars per notebook.
15) **The correct answer is** 3 **.** 7.G.1-7.G.5 All three corresponding side lengths match, so the triangles are congruent by SSS.
16) **Choice C is correct.** 7.RP.3 Annual before discount: $80\times 12=960$. Discount: $\frac{10}{100}\times 960=96$. Price: $960-96=\$864$.
17) **Choice A is correct.** 7.NS.1-7.NS.3 $9.08\times 10^5=9.08\times 100{,}000=908{,}000$.
18) **Choice C is correct.** 7.EE.3-7.EE.4 Add 5: $9x=54$. Divide by 9: $x=6$.
19) **Choice B is correct.** 7.G.1-7.G.5 An axial plane through a cone's apex intersects the base at a diameter, creating an isosceles triangle with two equal slant-height sides and a base equal to the diameter.
20) **Choice C is correct.** 7.SP.1-7.SP.4 A sample of 300 from 12,000 is approximately 2.5% of the population and is large enough to provide reliable results. Samples of 20 and 50 are too small and may not represent the full diversity of students. A sample of 2000 would give similar reliability but is unnecessary.
21) **The correct answer is A,C.** 7.G.4-7.G.6 Option A is correct (60 m^2). Option C is correct (18 m^2). The true total is $60+18=78$ m^2, so D and
22) **Choice D is correct.** 7.RP.1-7.RP.3 Unit rate $=\frac{5/2}{1/3}=\frac{5}{2}\times 3=\frac{15}{2}$ m/s.
23) **Choice D is correct.** 7.RP.1-7.RP.3 Rate is $\frac{3\text{ miles}}{30\text{ min}}=0.1$ miles per minute.
24) **Choice D is correct.** 7.RP.3 Housing + Savings $=(35\%+15\%)\times\$5{,}000=50\%\times 5000=0.50\times 5000=\$2{,}500$.
25) **The correct answer is** 18.2% **.** 7.RP.3 Percent error $=\frac{|18-22|}{22}\times 100\%=\frac{4}{22}\times 100\%\approx 18.18\%$, rounds to 18.2%.
26) **Choice B is correct.** 7.NS.1-7.NS.3 New rate $=200+15-8+12=219$ items/hour.
27) **Choice B is correct.** 7.SP.5-7.SP.8 Lemon or lime $=4+3=7$. $P(\text{lemon or lime})=\frac{7}{12}$.
28) **Choice B is correct.** 7.SP.5-7.SP.8 Red sector is $360^\circ-144^\circ=216^\circ$. $P(\text{Red})=\frac{216}{360}=\frac{3}{5}=0.6$.
29) **Choice B is correct.** 7.NS.1-7.NS.3 $13\times 13=169$, so $\sqrt{169}=13$.
30) **Choice A is correct.** 7.NS.2 $0.4\times 0.5=0.2$. Count total decimal places: $4\times 5=20$, then place decimal to get $0.20=0.2$.
31) **Choice C is correct.** 7.RP.1-7.RP.3 Original area: $10\times 5=50$ m^2. New dimensions: $20\times 10=200$ m^2.

Hi, Confident Learner!

◇ This high-stamina book gave you nine substantial Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. Grade 7 math can feel big because it brings together rational numbers, expressions, equations, geometry, probability, and data. ◇

⋆ **Remember this:** But big topics become manageable when you practice one skill at a time. That is what you have been doing with every test in this book. ⋆

Confidence Builders

- **Know the Goal:** Identify what the question asks.
- **Use Vocabulary:** Math words point to math actions.
- **Show Work:** Give yourself something to check.
- **Celebrate Effort:** Practice is proof that you are moving.

Grade 7 test-day tip: When reviewing, do not only mark wrong answers. Write one sentence about what you learned from each one.

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

Jay Daie
Your Confidence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **9** 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:

- **9** 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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FOR MORE PRACTICE TESTS AND LEARNING RESOURCES.

PRACTICE REGULARLY | STAY FOCUSED | SOLVE CONFIDENTLY | SUCCEED BRIGHTLY