

7

Florida FAST

Grade 7 Math Practice Tests



ONLINE

7 PRINTED TESTS + 2 ONLINE TESTS

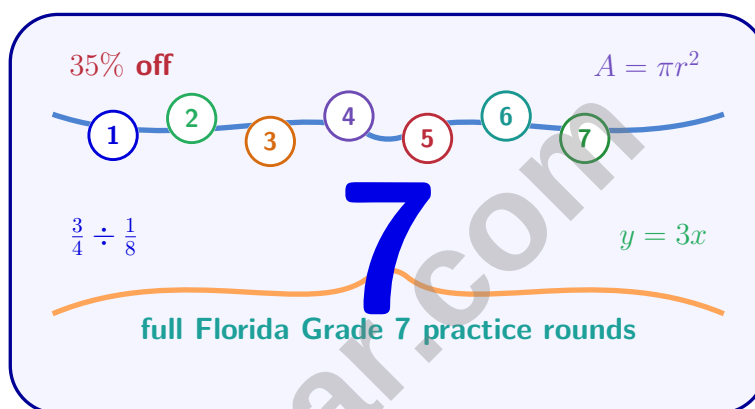


**Standards Aligned Problem Solving
For Comprehensive Assessment Programs**



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.

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Welcome, Florida Grade 7 Problem Solver!

Eight focused rounds for sharper FAST math thinking

This book gives you seven 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, 280 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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& answers

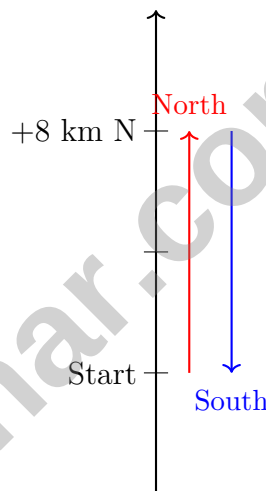
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5) Two triangles have sides (3, 4, 5) and (5, 12, 13), respectively. Which statement is correct?

- ☐ A. Both are right triangles and congruent
☐ B. Both are right triangles but not congruent
☐ C. Only the first is a right triangle
☐ D. Neither is a right triangle

6) A scout hikes 8 kilometers north, then 8 kilometers south. Using a signed number model where north is positive, what is the total displacement?



- ☐ A. 16 km north
☐ B. 8 km north
☐ C. 0 km (back at start)
☐ D. 8 km south
- 7) Simplify: $4m^2 + 7m + 2m^2 - 3m$

- ☐ A. $6m^2 + 4m$
☐ B. $6m^3 + 4m$
☐ C. $11m^2 + 4m$
☐ D. $6m^2 - m$



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8) A rectangular patio has area $36m + 54$ square feet. If the width is 18 feet, what is the length?

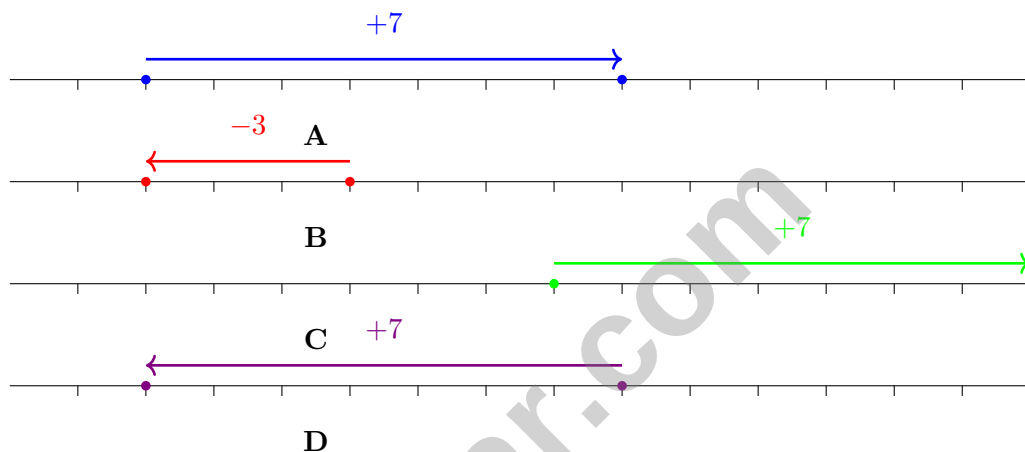
☐ A. $2m + 3$

☐ C. $3m + 3$

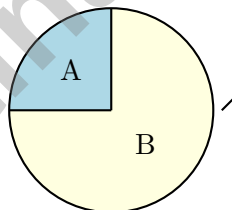
☐ B. $2m + 54$

☐ D. $36m$

9) Which number line correctly shows $-3 + 7$?



10)



A spinner with sections A and B is spun twice. What is the total number of outcomes in the sample space?

☐ A. 2

☐ C. 4

☐ B. 3

☐ D. 8



- 1) A car loan of \$15000 is taken at a simple interest rate of 7% per year. How much total interest will be paid over 6 years?

☐ A. \$4500 ☐ C. \$7000
☐ B. \$10500 ☐ D. \$6300

- 2) Subtract: $6\frac{1}{3} - 2\frac{5}{6}$. Express your answer as a mixed number.

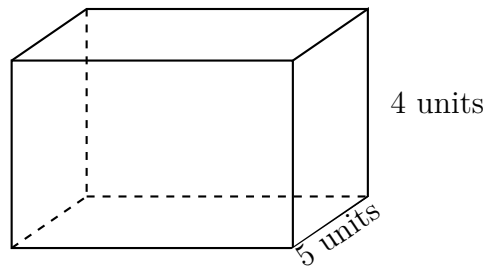
- 3) Which expression is equivalent to $12m + 18n$?

☐ A. $6(2m + 3n)$ ☐ C. $2(6m + 9n)$
☐ B. $6(12m + 18n)$ ☐ D. $12(m + 1.5n)$

- 4) A platform is designed as two congruent trapezoids joined at their parallel sides. Each trapezoid has parallel sides of 6 m and 4 m with height 3 m. What is the total platform area?

☐ A. 15 m^2 ☐ C. 45 m^2
☐ B. 30 m^2 ☐ D. 60 m^2





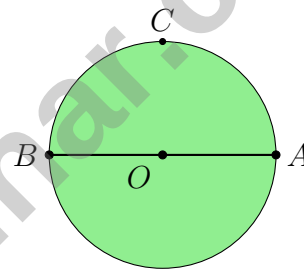
5)

6 units

The rectangular prism shown has dimensions as labeled. What is its volume in cubic units?

☐ A. 15 cubic units☐ C. 120 cubic units☐ B. 60 cubic units☐ D. 240 cubic units

6) In the circle below, use the diagram to identify the segment.



The segment from B to A is:

☐ A. A radius☐ C. An arc☐ B. A diameter☐ D. A sector**Scan me!**For more practice
& answers

1) What is the exponent when 8.9 is used as the coefficient in scientific notation for 8,900,000,000?

☐ A. 8

☐ C. 10

☐ B. 9

☐ D. 11

2) A backpack costs \$35. It is on sale for 30% off. What is the sale price? Show your work.

3) A restaurant bill is \$120 before tax and tip. The customer pays 8% sales tax and then adds a 15% tip on the pre-tax bill. What is the total amount paid?

☐ A. \$129.60

☐ C. \$147.60

☐ B. \$139.20

☐ D. \$148.80

4) Convert $\frac{3}{4}$ to a percent.

☐ A. 34%

☐ C. 65%

☐ B. 43%

☐ D. 75%

5) The table shows the relationship between gallons of gas and cost.

Gallons	Cost (\$)
3	12
5	20
8	32

Which equation represents this relationship?

☐ A. $C = 3g + 1$

☐ C. $C = g + 9$

☐ B. $C = \frac{g}{4}$

☐ D. $C = 4g$



- 6) A student earns simple interest at 6% annually on \$500. After 3 years, the total interest is:

- ☐ A. \$30 ☐ C. \$91.46
☐ B. \$120 ☐ D. \$90

7)

Account Type	Annual Interest Rate
Savings Account	1.5%
Money Market	3%
Certificate of Deposit (CD)	4%

Keisha has \$2 000 to deposit. If she wants to maximize her interest earnings in one year without restrictions, which account should she choose?

- ☐ A. Savings Account ☐ C. Certificate of Deposit
☐ B. Money Market ☐ D. None; interest rates are equal
- 8) A store discounts items by at most \$15. If an item originally costs \$60, what is the minimum price after discount?

- 9) A cube has edge length 3 cm. What is its surface area?

- ☐ A. 9 cm^2 ☐ C. 27 cm^2
☐ B. 18 cm^2 ☐ D. 54 cm^2



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Florida Assessment of Student Thinking 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 Assessment of Student Thinking practice test.



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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (7.RP.1-7.RP.3) All y/x ratios equal 5 gallons per minute, confirming a proportional relationship.
- 2) **Choice A is correct.** (7.NS.2) After 1 hour: $16 \times 0.5 = 8$ bacteria. After 2 hours: $8 \times 0.5 = 4$ bacteria. Multiplying by a decimal less than 1 decreases the quantity (scaling).
- 3) **Choice D is correct.** (7.RP.3) Origination fee = $0.01 \times 300000 = \$3,000$.
- 4) **Choice C is correct.** (7.RP.3) After year 1: $1000 \times 1.10 = \$1,100$. After year 2: $1100 \times 1.10 = \$1,210$.
- 5) **Choice B is correct.** (7.G.1-7.G.5) For (3, 4, 5): $3^2 + 4^2 = 9 + 16 = 25 = 5^2$ ✓. For (5, 12, 13): $5^2 + 12^2 = 25 + 144 = 169 = 13^2$ ✓. Both are right triangles. Since they have different side lengths, they are not congruent.
- 6) **Choice C is correct.** (7.NS.1-7.NS.3) $+8$ (north) and -8 (south) are opposites. Their sum is zero: $8 + (-8) = 0$. The scout returns to the starting point.
- 7) **Choice A is correct.** (7.EE.1) Combine m^2 terms and m terms: $(4 + 2)m^2 + (7 - 3)m = 6m^2 + 4m$.
- 8) **Choice A is correct.** (7.EE.1-7.EE.2) Factor: $36m + 54 = 18(2m + 3)$. Length = $\frac{18(2m+3)}{18} = 2m + 3$.
- 9) **Choice A is correct.** (7.NS.1b) Start at -3 and move 7 units to the right to reach 4. Options B, C, and D either move in the wrong direction or start at the wrong point.
- 10) **Choice C is correct.** (7.SP.5-7.SP.8) First spin: 2 outcomes (A or B). Second spin: 2 outcomes. Total: $2 \times 2 = 4$ outcomes (AA, AB, BA, BB).
- 11) **Choice A is correct.** (7.NS.1-7.NS.3) Moving left 3.2 units from 9.8: $9.8 - 3.2 = 6.6$.
- 12) **Choice D is correct.** (7.NS.2d) Divide $23 \div 40 = 0.575$. Since $40 = 2^3 \times 5$, it terminates in three decimal places.
- 13) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute the negative: $6m - 2 - 4m + 8 = (6m - 4m) + (-2 + 8) = 2m + 6$.
- 14) **Choice A is correct.** (7.EE.4a) Consultation is \$50 plus \$60 per session. Equation: $60s + 50 = 290$.
- 15) **Choice C is correct.** (7.EE.3-7.EE.4) Perimeter: $2(3w - 2) + 2w = 28 \Rightarrow 6w - 4 + 2w = 28 \Rightarrow 8w = 32 \Rightarrow w = 4$.
- 16) **Choice B is correct.** (7.EE.3-7.EE.4) Add 5: $2x = 12$. Divide by 2: $x = 6$.
- 17) **Choice B is correct.** (7.EE.4b) Multiply both sides by -3 and flip the sign: $x \geq -12$.
- 18) **Choice C is correct.** (7.G.1-7.G.5) Scale factor is 10. Actual dimensions: 50 cm $\times$ 30 cm. Area: $50 \times 30 = 1500$ cm².
- 19) **The correct answer is A,B.** (7.RP.3) Choice A: 20% of 500 = $0.20 \times 500 = 100$. ✓ Choice B: 50% of 500 = $0.50 \times 500 = 250$. ✓ Choice C: 10% of 500 = 50, not 40. ✗ Choice D: 15% of 500 = 75, not 80. ✗
- 20) **Choice A is correct.** (7.G.1-7.G.5) Blueprint 1 at scale 1:4 ft: actual hallway is $2.5 \times 4 = 10$ ft and $8 \times 4 = 32$ ft. Blueprint 2 shows the same hallway (10 ft $\times$ 32 ft) as 5 $\times$ 16 in. Scale of B: $10 \text{ ft} \div 5 \text{ in} = 2 \text{ ft per inch}$, or 1 in : 2 ft. Ratio check: scale B (2 ft/in) is half scale A (4 ft/in), so drawing B should be $4 \div 2 = 2 \times$ larger: B is 5 $\times$ 16 in vs A is 2.5 $\times$ 8 in. Correct!
- 21) **Choice D is correct.** (7.G.1-7.G.5) Angles on a straight line sum to 180°: $f = 180 - 56 = 124^\circ$.
- 22) **Choice A is correct.** (7.G.1-7.G.5) Reflection over the x -axis follows the rule $(x, y) \rightarrow (x, -y)$. The x -value -4 remains, and y changes from 3 to -3 .
- 23) **The correct answer is 70.** (7.RP.1-7.RP.3) The unit rate is $140 \div 2 = 70$ miles per hour. This is the car's constant speed.
- 24) **The correct answer is \$129.71.** (7.RP.3) Apply the 15% discount to get $140(0.85) = 119$. Then add 9% tax: $119(1.09) = 129.71$.
- 25) **Choice C is correct.** (7.G.1-7.G.5) Scale factor 1 : 3 means $\frac{\text{smaller}}{\text{larger}} = \frac{1}{3}$. So $\frac{5}{\text{larger}} = \frac{1}{3}$, giving larger = $5 \times 3 = 15$ cm.
- 26) **Choice B is correct.** (7.G.4-7.G.6) Circle: $r = 7$, $A = \frac{22}{7} \times 49 = 154$ in². Square: $A = 14^2 = 196$ in². Square is larger.
- 27) **Choice B is correct.** (7.G.4-7.G.6) $78.5 = 3.14 \times 6.25 \times h \Rightarrow 78.5 = 19.625h \Rightarrow h = 4$ m.
- 28) **Choice B is correct.** (7.SP.1-7.SP.4) Surveying only students already in the library is convenient but misses students who rarely visit, creating a non-representative sample.
- 29) **Choice A is correct.** (7.SP.1-7.SP.4) Breed A ranges from 45–49 (range = 4), while Breed B ranges 35–55 (range = 20). Smaller range indicates greater consistency.



One Last Encouragement

Hi, Determined Student!

◇ You did meaningful Grade 7 practice. That matters because confidence is built through action, not waiting until everything feels easy. This broad and demanding book gave you seven strong Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. ◇

★ **Remember this:** Carry this with you: you can learn hard things by breaking them into steps, asking good questions, and reviewing with honesty. ★

Take This With You

- **You Can Start:** Even when the problem looks big.
- **You Can Adjust:** When the first method is not enough.
- **You Can Learn:** From every corrected mistake.
- **You Can Improve:** One practice session at a time.

Grade 7 test-day tip: Walk into test day ready to think, not ready to be perfect. Thinking clearly is the goal.

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

Jay Daie

Your Grade 7 Math Friend

Practice Today. Succeed Tomorrow!

This book includes **7** 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.

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Develop logical thinking and effective solution strategies.



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Achieve Success

Build confidence and perform your best on test day.

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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.



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