

8 Florida FAST

GRADE 6

MATH

PRACTICE TESTS

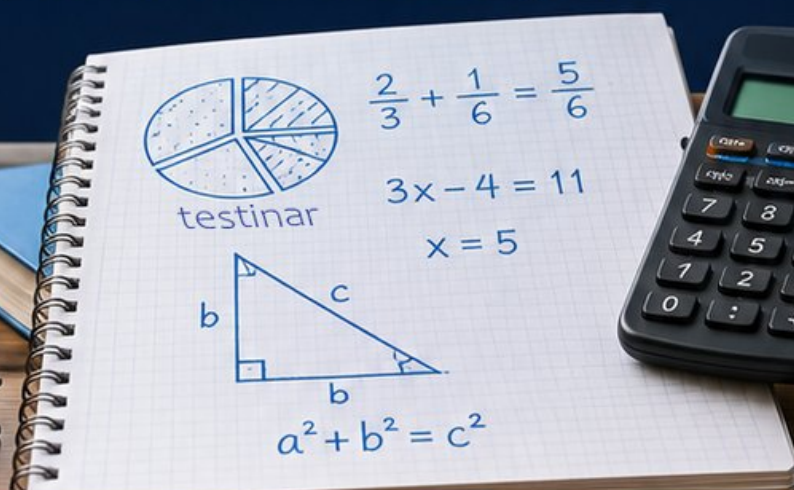
8
PRINTED
TESTS

+

2
ONLINE
TESTS

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

Standards-Aligned *Steady Southern* Problem Solving for Comprehensive Assessment Program



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



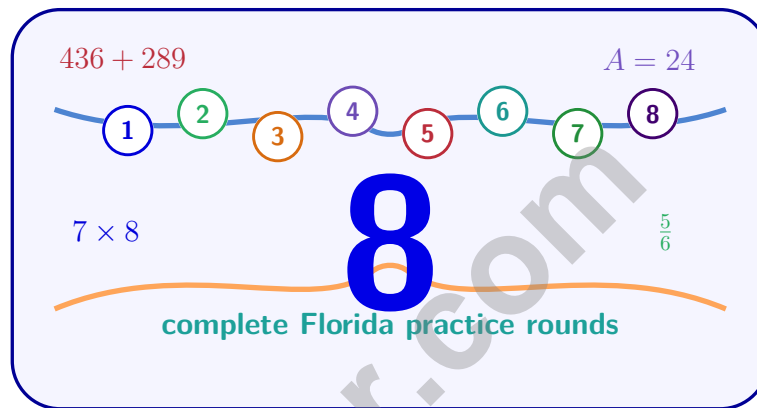
STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 Florida FAST Grade 6 Math Practice Tests

Standards-Aligned Sun-Bright Test Stamina for Florida Assessment of Student Thinking



Eight complete 40-question Grade 6 practice rounds for FAST, built for sun-bright test stamina with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Florida Math Explorer!

Eight focused rounds using sun-bright test stamina

This book gives you eight full Grade 6 practice tests for FAST. Each round uses coastal maps, warm light, and quick but careful checks as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Florida Practice Promise

Stay bright and steady: read the whole question, model the math, and verify before choosing.

Read

Plan

Check

How to Use This Book

A eight-session routine for sun-bright test stamina

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Mark confidence.** Put a small star beside problems where your plan felt strong.
3. **Work in order.** Take one 40-question test at a time in a quiet place.
4. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.
5. **Correct actively.** Retry missed items before reading the full explanation.

Florida review rhythm: Practice, review, and return with one sharper habit for the next FAST-style round.



What Is Inside?

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

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–8	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Sun-bright test stamina means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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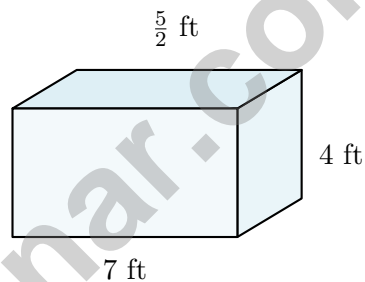
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1) Three rectangles on a coordinate plane have the following dimensions: Rectangle A is 4×5 ; Rectangle B is 2×10 ; Rectangle C is 3×7 . Which two rectangles have equal areas?

- A. Rectangles A and B
 B. Rectangles B and C
 C. Rectangles A and C
 D. All three have different areas.

2) A trapezoid with bases of 11 m and 7 m has a height of 5 m. What is the area?

- A. 23 m^2
 B. 35 m^2
 C. 90 m^2
 D. 45 m^2



3)

Calculate the volume.

- A. 35 ft^3
 B. 56 ft^3
 C. 70 ft^3
 D. 140 ft^3

4) Alex saves \$100 from a \$500 income. Jordan saves \$75 from a \$400 income. Who saves a higher percentage of income?

- A. Alex at 20%
 B. Alex at 25%
 C. Jordan at 18.75%
 D. Jordan at 25%



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5) Which list shows the fractions in order from least to greatest?

A. $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}$

B. $0, -\frac{1}{4}, -\frac{1}{2}, -\frac{3}{4}$

C. $\frac{3}{4}, \frac{1}{2}, \frac{1}{4}, 0$

D. $-\frac{3}{4}, -\frac{1}{2}, -\frac{1}{4}, 0$

6) Evaluate: $(5 + 1)^2 \div 3 + 4$

A. 8

B. 16

C. 20

D. 36

7) Which expression correctly translates “the sum of 2 and the quotient of 8 and a number z ”?

A. $\frac{2 + 8}{z}$

B. $(2 + 8) \div z$

C. $z + \frac{8}{z}$

D. $2 + \frac{8}{z}$

8) Evaluate $-3y$ when $y = -4$.

A. -12

B. -7

C. 12

D. -1

9) A team scores s points in the first half and 18 points in the second half. Which expression shows the total points scored?

A. $s - 18$

B. $18 - s$

C. $s + 18$

D. $18s$

10) Solve for x : $\frac{x}{2.5} = 6$

A. $x = 2.4$

B. $x = 8.5$

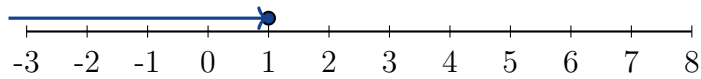
C. $x = 15$

D. $x = 3.6$



11) What is the least integer that is at least 25?

12) What inequality is shown on this number line?



A. $x \leq 1$

C. $x > 1$

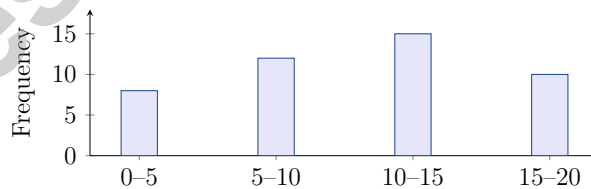
B. $x < 1$

D. $x \geq 1$



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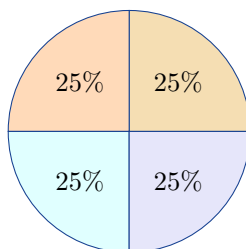
- 1) A plumber charges a fixed fee of \$50 plus \$60 per hour. If h is the hours worked and C is total cost, which equation represents this?
- A. $C = 50h + 60$ C. $C = 110h$
 B. $h = 60C + 50$ D. $C = 60h + 50$
- 2) A probability line goes from 0 to 1. Where would you place an event with probability $\frac{1}{4}$?
- A. At 0 (impossible). C. At $\frac{1}{2}$ (even chance).
 B. Between 0 and $\frac{1}{2}$ (unlikely). D. Between $\frac{1}{2}$ and 1 (likely).
- 3) Using the same dot plot from the previous question, what is the mean number of books read (rounded to the nearest whole number)?
- A. 3 C. 5
 B. 4 D. 6
- 4) A histogram with bins of width 5 shows data ranging from 0 to 20. If the frequencies are 8, 12, 15, 10, what does each frequency represent?



- A. The number of data points in each bin C. The midpoint of each bin
 B. The width of each bin D. The average of the data



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& answers



5)

The circle graph shows equal portions of 120 total items. What is the measure of the central angle for each section?

- A. 45° C. 120°
 B. 75° D. 90°

6) A researcher created a scatter plot comparing study hours (x-axis) and test scores (y-axis) for 8 students. The dots show a loose upward trend but with some scatter. What conclusion is MOST accurate?

- A. Study hours perfectly predict test scores C. Students who study less always score higher
 B. There is a weak positive correlation between study and scores D. There is no relationship between study and test scores

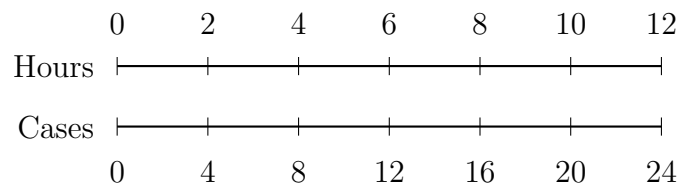
7) Evaluate: $6 + (3 \times 2)^2 \div 4$

- A. 15 C. 24
 B. 21 D. 33

8) Which expression represents “a number s increased by 6”?

- A. $6 - s$ C. $s - 6$
 B. $s + 6$ D. $6s$





Based on the double number line, what is the rate in cases per hour?

- A. 2 cases per hour C. 6 cases per hour
 B. 4 cases per hour D. 8 cases per hour
- 2) What is 9^2 ?
- A. 18 C. 90
 B. 81 D. 19
- 3) Which expression represents “a number v less than 8”?
- A. $v - 8$ C. $8 - v$
 B. $8 + v$ D. $8v$
- 4) Evaluate $9 + 3n - n$ when $n = 2$.
- A. 8 C. 21
 B. 10 D. 13



Florida FAST Practice Test Answer Keys

How to use this Florida FAST answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to sun-bright test stamina
3. rework the problem before reading the full explanation, using this reminder:
Stay bright and steady: read the whole question, model the math, and verify before choosing.

A calm Florida correction routine turns every missed item into useful practice. Practice, review, and return with one sharper habit for the next FAST-style round.



Scan me!
For more practice
& answers

Florida Practice Test Answers and Explanations

Review the eight printed FAST tests with alert, steady, and ready to keep moving habits.

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(MA.6.GR.1.3)** Rectangle A: $4 \times 5 = 20$ sq. units. Rectangle B: $2 \times 10 = 20$ sq. units. Rectangle C: $3 \times 7 = 21$ sq. units. Rectangles A and B have equal areas.
- 2) **Choice D is correct.** **(MA.6.GR.2.2)** Area = $\frac{1}{2}(11 + 7) \times 5 = \frac{1}{2}(18)(5) = 45 \text{ m}^2$.
- 3) **Choice C is correct.** **(MA.6.GR.2.3)** $V = 7 \times 4 \times 2.5 = 28 \times 2.5 = 70 \text{ ft}^3$.
- 4) **Choice A is correct.** **(MA.6.NSO.4.2)** Alex: $\frac{\$100}{\$500} = 0.20 = 20\%$. Jordan: $\frac{\$75}{\$400} = 0.1875 = 18.75\%$. Alex saves a higher percentage.
- 5) **Choice D is correct.** **(MA.6.NSO.1.2)** Negative fractions closest to zero are greater. Order: $-0.75 < -0.5 < -0.25 < 0$.
- 6) **Choice B is correct.** **(MA.6.AR.1.3)** Parentheses: $5 + 1 = 6$. Exponent: $6^2 = 36$. Division: $36 \div 3 = 12$. Finally add: $12 + 4 = 16$.
- 7) **Choice D is correct.** **(MA.6.AR.1.1)** “The quotient of 8 and z ” is $\frac{8}{z}$. “The sum of 2 and” that quotient is $2 + \frac{8}{z}$.
- 8) **Choice C is correct.** **(MA.6.AR.1.3)** Substitute $y = -4$: $-3(-4) = 12$ (negative times negative equals positive).
- 9) **Choice C is correct.** **(MA.6.AR.2.2)** Total points = first half plus second half = $s + 18$.
- 10) **Choice C is correct.** **(MA.6.AR.2.2)** Multiply both sides by 2.5: $x = 6 \times 2.5 = 15$.
- 11) **The correct answer is 25.** **(MA.6.AR.2.3)** At least 25 includes 25 and all greater numbers.
- 12) **Choice A is correct.** **(MA.6.NSO.1.3)** A closed (filled) circle at 1 with an arrow pointing left means 1 is included and we want all numbers less than or equal to 1.
- 13) **Choice A is correct.** **(MA.6.DP.1.6)** The line passes through (1, 2) and (3, 6). The slope is $\frac{6-2}{3-1} = \frac{4}{2} = 2$, giving $y = 2x$.
- 14) **Choice C is correct.** **(MA.6.GR.2.4)** Lateral surface area = sum of three rectangles = $3 \times (8 \times 4) = 3 \times 32 = 96 \text{ cm}^2$. (Perimeter \times height = $12 \times 8 = 96 \text{ cm}^2$.)
- 15) **Choice B is correct.** **(MA.6.DP.1.2)** Mean = $\frac{4 + 6 + 8 + 10 + 12}{5} = \frac{40}{5} = 8$.
- 16) **Choice D is correct.** **(MA.6.AR.3.4)** The middle 50% is the IQR: $Q_3 - Q_1 = 20 - 8 = 12$.
- 17) **Choice D is correct.** **(MA.6.DP.1.5)** With 10 values, $Q_1 =$ median of lower 5 $\{1, 2, 2, 3, 3\} = 2$. $Q_3 =$ median of upper 5 $\{3, 4, 5, 5, 6\} = 4$. IQR = $4 - 2 = 2$.
- 18) **Choice B is correct.** **(MA.6.DP.1.6)** In order: 202, 205, 207, 211, 213, 216, 218, 220, 224, 226, 229. With 11 values, the median is the 6th value: 216 ms.
- 19) **The correct answer is 130.** **(MA.6.GR.2.1)** Square area: $10 \times 10 = 100 \text{ cm}^2$. Triangle area: $\frac{1}{2} \times 10 \times 6 = 30 \text{ cm}^2$. Total: $100 + 30 = 130 \text{ cm}^2$.
- 20) **Choice C is correct.** **(MA.6.AR.3.5)** 48-oz: $\$8.00 \div 48 \approx \$0.167/\text{oz}$. 64-oz: $\$9.60 \div 64 = \$0.15/\text{oz}$. The 64-oz bottle has the better (lower) unit price.
- 21) **The correct answer is 35% of \$40 = $0.35 \times 40 = \$14$ (discount); Sale price is $\$40 - \$14 = \$26$. Choices A and B are correct..** **(MA.6.AR.3.3)** Discount: 35% of $\$40 = 0.35 \times 40 = \14 , so choice A is correct. Sale price: $\$40 - \$14 = \$26$, so choice B is correct. Choice C ($\$28$) and choice D ($\25) are incorrect discount/price combinations. Choice E ($\$35$) confuses the percent with the original price and is incorrect.
- 22) **The correct answer is 36.** **(MA.6.GR.1.3)** Length = $8 - 2 = 6$ units; width = $9 - 3 = 6$ units. Area = $6 \times 6 = 36$ square units.
- 23) **Choice B is correct.** **(MA.6.GR.1.1)** Both points yield the same unit rate of 250 square feet per gallon: $\frac{500}{2} = 250$ and $\frac{1000}{4} = 250$. Proportional points maintain a constant ratio.
- 24) **Choice A is correct.** **(MA.6.AR.3.2)** 6 : 9 simplifies by dividing both by 3: $6 \div 3 = 2$ and $9 \div 3 = 3$, giving 2 : 3.
- 25) **Choice C is correct.** **(MA.6.AR.2.3)** Divide: $24 \div 12 = 2$ feet.
- 26) **Choice A is correct.** **(MA.6.NSO.2.1)** Verification: $15 \times 374 = 5,610$. The worker’s answer is correct with no error.



Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 8 tests is like 8 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.



PERFECT FOR

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence

★ PRACTICE TODAY.
SUCCEED TOMORROW.

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Understand Key Concepts

Reinforce important math ideas aligned with standards.



Test Confidence

Get familiar with test formats and improve accuracy.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ And More!



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS