# 10 Florida FAST PRACTICE TESTS

GRADE 6 MATH

## Standards-Aligned Review
## Mixed Practice & Answer Key

**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

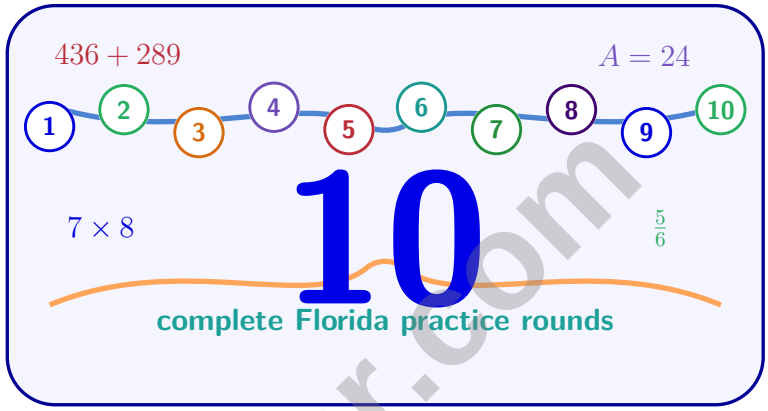
**10 PRINTED TESTS +2 ONLINE TESTS**

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

PRACTICE • REVIEW • SUCCEED

# 10 Florida FAST Grade 6 Math Practice Tests

*Standards-Aligned Sunny, Steady Confidence for Florida Assessment of Student Thinking*




**Ten complete 40-question Grade 6 practice rounds for FAST, 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!

Ten steady rounds on a Sunshine State math sprint

This book gives you ten full Grade 6 practice tests for FAST. Each round uses coastal light, wetlands, and bright review routines 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**

Check whether the answer is reasonable before moving on. I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

# How to Use This Book

A ten-session routine for sunny, steady confidence

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Work in a quiet place and answer all 40 questions.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Florida review rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.

# What Is Inside?

Ten FAST tests, 400 questions, and a full review path

| Part | What You Will Practice |
|---|---|
| Tests 1–3 | Warm-up rounds for ratios, rational numbers, operations, and careful reading. |
| Tests 4–6 | Skill-building rounds with expressions, equations, geometry, data, and problem models. |
| Tests 7–9 | Stamina rounds for mixed review, neat work, and flexible strategy choices. |
| Test 10 | 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. Sunny, steady confidence means recognizing the skill even when the next question changes topic.

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1) A student creates a stem-and-leaf plot with stems $3, 4, 5$ and forgets to order the leaves. The correct ordered plot should have leaves from smallest to largest. Which plot shows an ordering error?

| Incorrect | Stem | Correct |
|---|---|---|
| $3, 7, 5$ | 2 | $3, 5, 7$ |
| $9, 2, 6$ | 3 | $2, 6, 9$ |

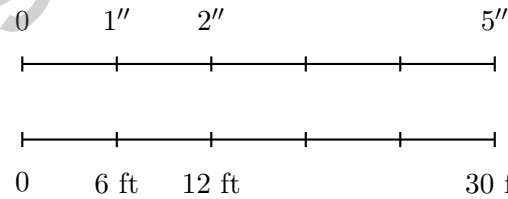
What is the error in the incorrect plot?

☐ A. Stems are not ordered
☐ B. The first leaf should be a stem
☐ C. Too many leaves in stem 3
☐ D. Leaves are not ordered from smallest to largest

2) A student saves $25 every two weeks. How much will she save in 8 weeks?

☐ A. $50
☐ B. $75
☐ C. $100
☐ D. $150

3) A double number line shows the relationship between drawing measurements and actual distances.




According to the double number line, 3 inches on the drawing represents how many feet?

☐ A. 12 feet
☐ B. 15 feet
☐ C. 18 feet
☐ D. 24 feet

4) What is $\frac{5}{8} \div \frac{5}{6}$?

☐ A. $\frac{25}{48}$
☐ B. 1
☐ C. $\frac{8}{6}$
☐ D. $\frac{3}{4}$

5) Three students measured the ratio of pennies to dimes in their wallets:

- Student A: 4 pennies and 6 dimes
- Student B: 10 pennies and 15 dimes
- Student C: 8 pennies and 10 dimes

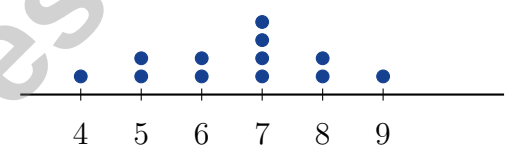
Which students have the same penny-to-dime ratio?

☐ A. Students A and B only
☐ B. Students A and C only
☐ C. Students B and C only
☐ D. All three students

6) A shirt is on sale for 50% off. Which decimal represents the discount?

☐ A. 0.05
☐ B. 0.5
☐ C. 5.0
☐ D. 50.0

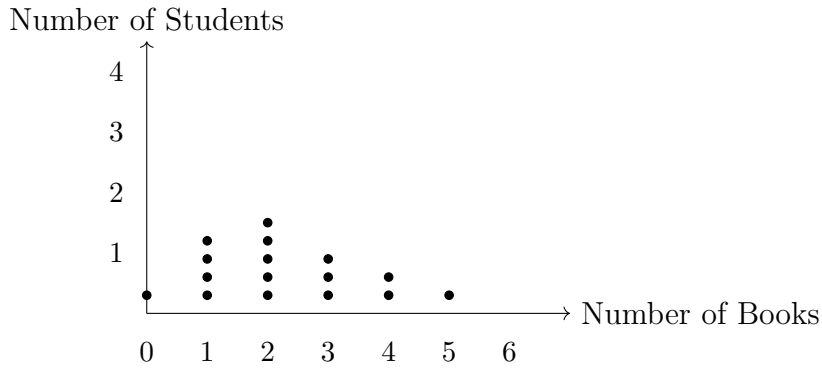
7) A dot plot displays the number of glasses of water consumed daily by 12 people. The values are: $4, 5, 5, 6, 6, 7, 7, 7, 7, 8, 8, 9$. Which is true?



Glasses of Water

☐ A. The mode is 5 glasses
☐ B. The mode is 7 glasses
☐ C. The range is 6 glasses
☐ D. The median is 5 glasses

8)




A dot plot shows the number of library books students checked out. What is the MEDIAN number of books?

☐ A. 1 book
☐ B. 2 books
☐ C. 3 books
☐ D. 2.5 books

9) A school's enrollment is divided between elementary and middle school in a ratio of 7 : 5. If the middle school has 250 students, how many students are in elementary school?

☐ A. 1000 students
☐ B. 175 students
☐ C. 500 students
☐ D. 350 students

10) Ice must stay below 32°F. What is the greatest whole-number temperature below 32?

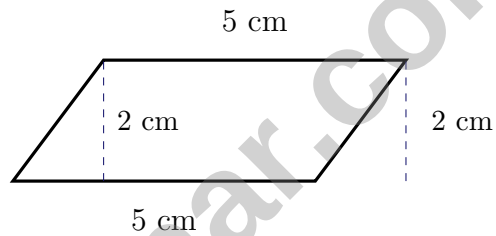
1) On an elevator, someone travels down 7 floors (represented as $-7$). How far did they travel in terms of absolute value?

☐ A. $-7$ floors
☐ B. 7 floors
☐ C. 0 floors
☐ D. 14 floors

2) The distance $d$ (in miles) traveled by a cyclist is related to time $t$ (in hours) by the equation $d = 20t$. What does the number 20 represent in this context?

☐ A. The cyclist's speed in miles per hour
☐ B. The distance traveled
☐ C. The time in hours
☐ D. The total hours of cycling

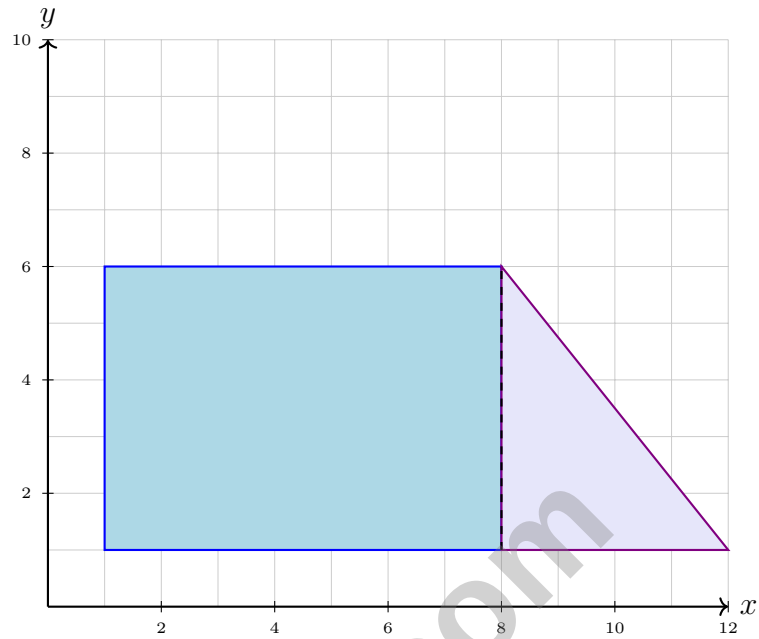
3)




The trapezoid has both bases labeled as 5 cm and a height of 2 cm. What is the area?

☐ A. 5 $cm^2$
☐ B. 20 $cm^2$
☐ C. 12 $cm^2$
☐ D. 10 $cm^2$

4)



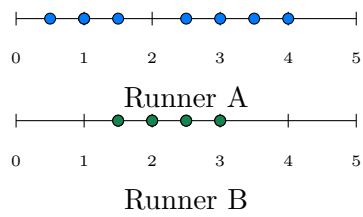

A composite figure consists of a rectangle and a triangle. The rectangle has vertices at $(1, 1)$, $(8, 1)$, $(8, 6)$, and $(1, 6)$. The triangle has vertices at $(8, 1)$, $(12, 1)$, and $(8, 6)$. What is the total area?

☐ A. 40 square units
☐ B. 45 square units
☐ C. 50 square units
☐ D. 55 square units

5) Read the question: "What is the temperature in my room right now?" Why is this NOT a statistical question?

☐ A. It does not mention many people.
☐ B. It is asked too quickly.
☐ C. Temperature is hard to measure.
☐ D. It has one fixed answer at one moment in time.

1) Two runners' sprint times (seconds) over 8 races. Which runner has more consistent sprint times?




☐ A. Runner A
☐ B. Runner B
☐ C. Both are equally consistent
☐ D. Cannot determine from dot plots

2) A student's grade increased from 82 to 90. What is the percent increase, rounded to the nearest whole number?

☐ A. 10%
☐ B. 9.8%
☐ C. 8%
☐ D. 12%

3) The ratio of length to width of a rectangle is 7 : 4. If the width is 20 cm, what is the length?

☐ A. 28 cm
☐ B. 30 cm
☐ C. 40 cm
☐ D. 35 cm

4) A factory fills bottles with 500 mL of juice each. How many liters is needed to fill 6 bottles?

☐ A. 0.3 liters
☐ B. 3 liters
☐ C. 30 liters
☐ D. 300 liters

5) A store item is marked \$64. The sales tax is 8%. What is the total cost including tax?

☐ A. \$67.52
☐ B. \$69.12
☐ C. \$72.00
☐ D. \$77.12

6) A ratio table shows books read to days:

| Days | Books |
|---|---|
| 2 | 3 |
| 4 | 6 |
| 6 | ? |

Complete the table by finding the missing value.

7) What is $5{,}832 \div 27$?

☐ A. 216
☐ B. 210
☐ C. 220
☐ D. 225

8) What is the value of $0.3 \times 0.3$?

☐ A. 0.09
☐ B. 0.9
☐ C. 9
☐ D. 0.6

# Florida FAST Practice Test Answer Keys

**How to use this section with a Grade 6 student:**

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

**A calm correction routine turns every missed item into useful practice.**

# Practice Test Answers and Explanations

## Practice Test 1 Answers and Explanations

1) **Choice D is correct.** MA.6.AR.1.1 In a proper stem-and-leaf plot, leaves must be arranged in ascending order within each stem. The incorrect plot has unsorted leaves; the correct plot shows leaves in order.
2) **Choice C is correct.** MA.6.AR.3.4 In 8 weeks, there are $8 \div 2 = 4$ two-week periods. Total saved: $\$25 \times 4 = \$100$.
3) **Choice C is correct.** MA.6.NSO.3.5 The pattern shows $1'' = 6$ ft. So $3'' = 3 \times 6 = 18$ ft.
4) **Choice D is correct.** MA.6.NSO.3.5 $\frac{5}{8} \times \frac{6}{5} = \frac{30}{40} = \frac{3}{4}$.
5) **Choice A is correct.** MA.6.AR.3.3 Simplify each ratio: Student A has $4 : 6 = 2 : 3$, Student B has $10 : 15 = 2 : 3$, and Student C has $8 : 10 = 4 : 5$. Only A and B match.
6) **Choice B is correct.** MA.6.GR.1.3 $50\% = \frac{50}{100} = 0.5$.
7) **Choice B is correct.** MA.6.NSO.3.2 7 appears 4 times, which is more often than any other value shown. The range is $9 - 4 = 5$, and the median of 12 values is the average of the 6th and 7th values: $(7 + 7) \div 2 = 7$ glasses.
8) **Choice B is correct.** MA.6.NSO.1.3 Counting the dots: 0 books (1 student), 1 book (4 students), 2 books (5 students), 3 books (3 students), 4 books (2 students), 5 books (1 student). Total = 16 students. The median is the average of the 8th and 9th values. Listing in order: 0, 1, 1, 1, 1, 2, 2, 2, 2, 2, 3, 3, 3, 4, 4, 5. The 8th value is 2 and the 9th value is 2, so the median is 2.
9) **Choice D is correct.** MA.6.AR.1.3 Middle school is the 5-part amount, and it equals 250. Each part is $250 \div 5 = 50$, so elementary school has $7 \times 50 = 350$ students.
10) **The correct answer is** 31. MA.6.GR.2.1 The greatest whole number less than 32 is 31.
11) **Choice A is correct.** MA.6.DP.1.5 A rate compares two quantities with different units. Divide total distance by total time to find the unit rate: $200 \div 4 = 50$ miles per hour. The error is using the raw distance instead of dividing.
12) **Choice B is correct.** MA.6.DP.1.6 From any column: $\$8 \div 2 = \$4$ per book. All columns confirm this unit rate.
13) **Choice A is correct.** MA.6.AR.3.2 Table A: $2 : 100$ and $4 : 200$ both simplify to $1 : 50$ (equivalent). Table B: $3 : 150$ simplifies to $1 : 50$, but $6 : 350 = 3 : 175 \neq 1 : 50$ (not equivalent). Table B breaks the proportional relationship.
14) **Choice B is correct.** MA.6.GR.1.1 The slope is $\frac{\text{rise}}{\text{run}} = \frac{32-0}{8-0} = \frac{32}{8} = 4$. This represents \$4 per ticket.
15) **Choice C is correct.** MA.6.AR.2.2 $45\%$ of $120 = 0.45 \times 120 = 54$ m$^2$.
16) **Choice C is correct.** MA.6.AR.2.3 Rate is $90 \div 2 = 45$ miles per hour. For 6 hours: $45 \times 6 = 270$ miles.
17) **Choice C is correct.** MA.6.DP.1.6 Multiply: $4 \times 2 = 8$ pints.
18) **Choice A is correct.** MA.6.GR.2.2 Food is 25% of the budget: $0.25 \times \$1200 = \$300$.
19) **Choice A is correct.** MA.6.GR.1.3 For apples at \$2 each, the equation is $c = 2a$. The graph passes through $(0, 0)$, $(1, 2)$, $(2, 4)$, $(3, 6)$, and $(4, 8)$, representing a proportional relationship with a unit rate of \$2 per apple.
20) **Choice B is correct.** MA.6.GR.2.4 $6{,}300 \div 48 = 131$ remainder 12. So 131 shelves are filled completely.
21) **The correct answer is Both $3n + 5$ and $5 + 3n$ represent the same value (multiplication is commutative for the product, and addition is commutative)..** MA.6.DP.1.1 $3n + 5$ correctly shows 3 times $n$ plus 5. $5 + 3n$ is equivalent because addition is commutative. $3(n + 5)$ would give $3n + 15$, not $3n + 5$. $5 + 3 + n$ gives $8 + n$. $3n - 5$ uses subtraction, not addition.
22) **Choice A is correct.** MA.6.NSO.3.1 $6 \times 8 = 48$. We have $2 + 1 = 3$ decimal places total, so 0.048 is correct.
23) **The correct answer is** 208. MA.6.GR.1.3 Two triangular bases have area $2 \times 24 = 48$ cm$^2$. The lateral surface area is perimeter times prism height: $20 \times 8 = 160$ cm$^2$. Total surface area is $48 + 160 = 208$ cm$^2$.
24) **Choice A is correct.** MA.6.DP.1.4 Multiples of 6: $6, 12, 18, 24, 30, \ldots$. Multiples of 8: $8, 16, 24, 32, \ldots$. The least common multiple is 24.
25) **Choice B is correct.** MA.6.DP.1.5 Descent below sea level is represented by a negative elevation. A descent of 12 meters is an elevation of $-12$ meters.
26) **Choice A is correct.** MA.6.NSO.2.3 Point J is located at $-0.8$, which equals $-\frac{8}{10} = -\frac{4}{5}$.
27) **Choice C is correct.** MA.6.AR.2.2 Point $R$ is at $(4, -3)$. Reflecting across the $y$-axis gives $(-4, -3)$, which is in Quadrant III (both coordinates negative).

## Hi, Math Champion!

◇ You trained hard! 10 full practice tests is real practice. Your math game is way better now than when you started. ◇

⋆ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works! ⋆

**Your Game Stats**

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

**Coach's tip:** the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

**Jay Daie**

Your Math Coach

# PRACTICE MORE. ACHIEVE MORE. SUCCEED!

This **Grade 6 Math Practice Tests** book is designed to help students build strong math skills, deepen their understanding of key concepts, and gain the confidence they need to succeed on any test.

With 10 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, strengthen problem-solving abilities, and reach their full potential.

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

**CONFIDENCE TODAY. SUCCESS 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.

### Deepen Understanding
Reinforce key math concepts 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
- The Number System
- Expressions & Equations
- Geometry
- Fractions & Decimals
- Percents
- Statistics & Probability
- Data Analysis
- Measurement & Conversions
- 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.

**10 PRINTED PRACTICE TESTS** | **2 ONLINE PRACTICE TESTS** | **DETAILED ANSWER EXPLANATIONS**