

# 7 Florida FAST

## Grade 6 MATH PRACTICE TESTS

7  
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



7 Full-Length  
Printed Tests



Standards-Aligned  
Math Practice



Detailed Answer Keys  
and Explanations



Build Confidence.  
Achieve Success.



You've  
Got  
This!



PREPARE  
PRACTICE  
SUCCEED



PRACTICE  
WITH PURPOSE



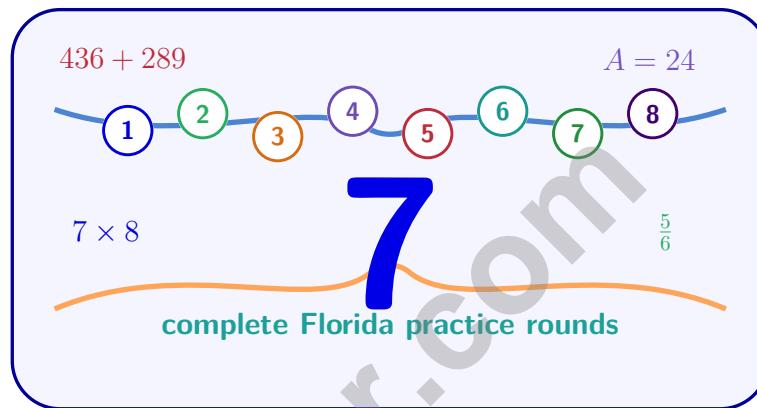
STRENGTHEN  
MATH SKILLS



REVIEW, IMPROVE,  
AND SUCCEED

# 7 Florida FAST Grade 6 Math Practice Tests

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



Seven 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 seven 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 seven-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.
Test 7	Final stamina round 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

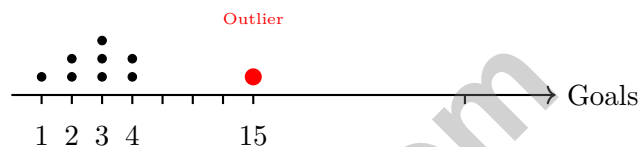
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- 1) A circle graph divides 180 minutes of study time into four subjects: math 45 minutes, science 60 minutes, English 45 minutes, social studies 30 minutes. What angle (in degrees) should represent the social studies section?

- A. 45 degrees                       C. 90 degrees  
 B. 30 degrees                       D. 60 degrees

- 2) A dot plot shows goal counts: 1, 2, 2, 3, 3, 3, 4, 4, 15.



Which measure best describes the typical goal count (excluding the outlier)?

- A. Mean                                       C. Mode  
 B. Median                                       D. Range
- 3) Compare two box plots: Dataset A has median 50 and IQR 15; Dataset B has median 45 and IQR 20. Which statement is true?
- A. Dataset A has a higher center and less spread.                       C. Both datasets have the same center.  
 B. Dataset A has a lower center and more spread.                       D. Dataset B is more skewed.
- 4) A back-to-back stem-and-leaf plot compares two data sets with a shared stem of 6. Class A (left) shows leaf 9. What value does this leaf represent?
- A. 96     C. 69  
 B. 59     D. Cannot be determined



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& answers

5) A store sells pens at a ratio of red to blue of 7 : 5. If there are 35 red pens, how many blue pens are there?

A. 30 pens

C. 20 pens

B. 49 pens

D. 25 pens

6) A rectangular prism has volume 45 cubic inches. Its length is 6 inches and width is  $\frac{5}{2}$  inches. What is its height?

A. 2 in

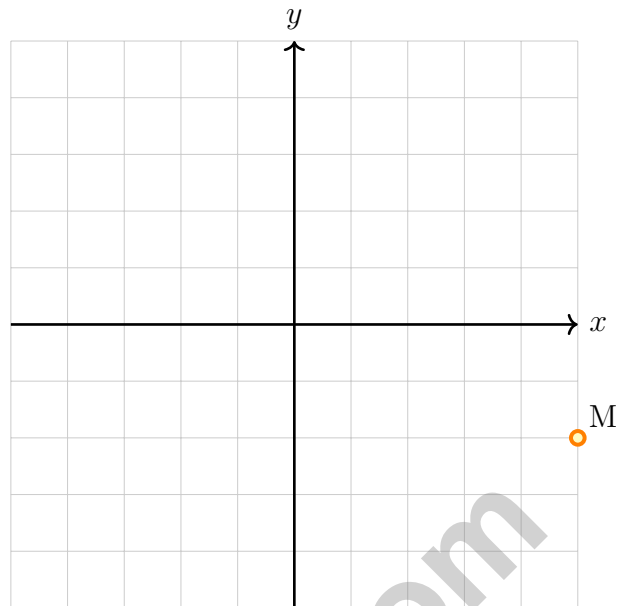
C. 5 in

B. 6 in

D. 3 in

7) A submarine at  $-300$  feet relative to sea level moves up 75 feet. What is its new depth?





8)

Point  $M$  is at  $(5, -2)$ . If it is translated 5 units left and 3 units up, what are the coordinates of  $M'$ ?

- A.  $(0, 1)$                        C.  $(0, -5)$   
 B.  $(10, -5)$                        D.  $(10, 1)$

9) Which question would you answer by collecting data?

- A. What is  $5 \times 6$ ?                       C. What are the favorite colors of students in my grade?  
 B. How many planets are in our solar system?                       D. What is the freezing point of water?



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& answers

1) A distance is 45 meters. How many kilometers is this? (Use 1 kilometer = 1000 meters.)

A. 0.045 km

C. 4.5 km

B. 0.45 km

D. 45,000 km

2) What is the GCF of 10 and 15?

A. 2

C. 5

B. 3

D. 10

3) Which set of three integers is correctly ordered from least to greatest?

A.  $-2, -5, -1$

C.  $-8, -3, 0$

B.  $2, -2, 0$

D.  $-1, 0, -2$

4) An error was found in a proportional relationship table. The equation should be  $y = 6x$ . Which point does NOT fit the pattern?

<b>x</b>	1	2	3	4
<b>y</b>	6	12	18	25

A.  $(1, 6)$  does not fit

C.  $(3, 18)$  does not fit

B.  $(2, 12)$  does not fit

D.  $(4, 25)$  does not fit

5) A restaurant receives 3,744 napkins in boxes of 16. How many boxes did they receive?

A. 234

C. 240

B. 230

D. 244



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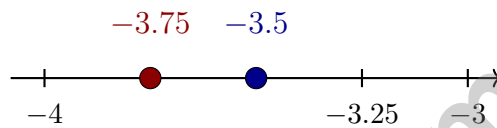
6) Estimate:  $19.8 \div 4.1$ . Which is closest?

- A. 5                       C. 24  
 B. 10                      D. 1

7) The point  $(5, -3)$  is located in which quadrant?

- A. Quadrant I                       C. Quadrant III  
 B. Quadrant II                      D. Quadrant IV

8)



Which point is further left?

- A.  $-3.5$                        C. They are the same distance  
 B.  $-3.75$                       D. Cannot determine

9) On a city map, a fire station is at  $(4, 6)$  and a hospital is at  $(12, 6)$ . The map scale is 1 unit = 250 meters. What is the distance between them in meters?

- A. 1500 m                       C. 2000 m  
 B. 1750 m                      D. 2250 m

10) A gym tracks weekly visitor counts: 120, 135, 128, 142, 151, 140, 130. When ordered: 120, 128, 130, 135, 140, 142, 151. Find the interquartile range.

- A. 12                               C. 15  
 B. 31                              D. 14



- 1) A restaurant tracks daily customer counts. Last month: mean = 150, range = 80. This month: mean = 155, range = 20. What does this tell you?
- A. This month had more customers and less consistency
- B. This month had more customers and more consistency
- C. Both months had similar customer patterns
- D. This month definitely had fewer total customers
- 2) A gym charges based on the number of personal training sessions. The graph shows points (4, 160) and (6, 240) on a straight line through the origin. What is the cost per session?
- A. \$20 per session
- B. \$30 per session
- C. \$40 per session
- D. \$80 per session
- 3) Option 1: 16 bagels for \$8. Option 2: 20 bagels for \$9. Which is the better buy?
- A. Option 1
- B. Cannot determine
- C. Both cost the same
- D. Option 2
- 4) A scientist measures a sample as 750 millimeters. How many centimeters is this? (Use 1 centimeter = 10 millimeters.)
- A. 7.5 cm
- B. 75 cm
- C. 750 cm
- D. 7500 cm
- 5) What is  $5,625 \div 45$ ?
- A. 125
- B. 128
- C. 130
- D. 135



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For more practice  
& answers

6) A pizza is cut into 8 slices. One slice costs \$2.50. What is the total cost of the pizza?

- A. \$18.00                       C. \$16.00  
 B. \$20.00                       D. \$22.00

7) Evaluate:  $\frac{-72}{-9}$

- A. 8                                       C. -63  
 B. -8                                     D. 63

8)

Item	Quantity
Apples	15
Bananas	25

What ratio correctly compares bananas to the total fruit in simplest form?

- A. 5 : 3                                   C. 15 : 25  
 B. 25 : 40                               D. 5 : 8

9) A school held a basketball tournament. Team A scored 35 points and Team B scored 42 points. Which ratio correctly compares the teams' scores?

- A. 5 : 6                                   C. 7 : 6  
 B. 6 : 5                                   D. 6 : 7

10)

Cups of Juice	1	2	3	4
Cost (\$)	2.50	5.00	7.50	10.00

What is the unit rate in dollars per cup?

- A. \$1.50 per cup                       C. \$2.50 per cup  
 B. \$2.00 per cup                       D. \$5.00 per cup



**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.**



## Florida Practice Test Answers and Explanations

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

### Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** [MA.6.NSO.2.3](#) Social studies is 30 minutes out of 180 total. The fraction is  $\frac{30}{180} = \frac{1}{6}$ . The angle is  $\frac{1}{6} \times 360^\circ = 60^\circ$ .
- 2) **Choice B is correct.** [MA.6.DP.1.2](#) The outlier 15 heavily skews the mean. The median (middle value) is more representative: 3.
- 3) **Choice A is correct.** [MA.6.AR.3.4](#) Median measures center; IQR measures spread. Dataset A's median is higher and IQR is smaller (less spread).
- 4) **Choice C is correct.** [MA.6.DP.1.6](#) In a back-to-back stem-and-leaf plot, the stem is shared in the middle (here, stem 6). Leaf 9 on Class A's side combines with stem 6 to form 69.
- 5) **Choice D is correct.** [MA.6.AR.3.4](#) Match 35 red pens to the 7 red parts:  $35 \div 7 = 5$ , so each part is worth 5 pens. Blue has 5 parts, so  $5 \times 5 = 25$  blue pens.
- 6) **Choice D is correct.** [MA.6.GR.2.3](#) From  $V = L \times W \times H$ :  $45 = 6 \times 2.5 \times H$ , so  $45 = 15 \times H$ , giving  $H = 3$  in.
- 7) **The correct answer is -225.** [MA.6.NSO.1.3](#) Starting at -300 feet and moving up 75 feet:  $-300 + 75 = -225$  feet (still below sea level).
- 8) **Choice A is correct.** [MA.6.GR.1.3](#) Translate left:  $5 - 5 = 0$ . Translate up:  $-2 + 3 = 1$ . So  $M' = (0, 1)$ .
- 9) **Choice C is correct.** [MA.6.DP.1.1](#) This is a statistical question requiring data collection because different students have different favorite colors. The other questions have single, fixed answers found through knowledge, not data collection.
- 10) **Choice C is correct.** [MA.6.DP.1.5](#) Total:  $4 + 9 + 7 + 3 = 23$  plants measured.
- 11) **Choice B is correct.** [MA.6.NSO.3.5](#) Total tiles =  $5 + 3 + 2 = 10$ . Non-A tiles =  $3 + 2 = 5$ . Probability =  $\frac{5}{10} = \frac{1}{2}$ .
- 12) **The correct answer is 1.4.** [MA.6.NSO.1.2](#) Distance =  $2.8 - 1.4 = 1.4$  units.
- 13) **Choice A is correct.** [MA.6.NSO.3.5](#) 27.5% of 360 is  $0.275 \times 360 = 99$  people.
- 14) **Choice A is correct.** [MA.6.AR.1.3](#) Substitute  $t = 10$ :  $100 - 6(10) = 100 - 60 = 40$ .
- 15) **Choice A is correct.** [MA.6.AR.2.2](#) The pattern is distance =  $60 \times$  hours. At 4 hours:  $60 \times 4 = 240$  miles.
- 16) **Choice A is correct.** [MA.6.AR.2.2](#) Substitute  $x = 6$  into the equation. Check:  $6 - 2 = 4$  is true.
- 17) **Choice C is correct.** [MA.6.AR.2.3](#) "No less than 500" means at least 500:  $s \geq 500$ .
- 18) **The correct answer is 4 and 12.** [MA.6.NSO.3.2](#) The number of boxes must divide both 48 and 60. Choice B works because both numbers are divisible by 4. Choice D works because both numbers are divisible by 12. Choices A, C, and E do not divide both amounts evenly.
- 19) **The correct answer is 36.** [MA.6.AR.1.3](#) First  $2 \times 3 = 6$ , then  $6^2 = 36$ .
- 20) **Choice B is correct.** [MA.6.NSO.1.3](#) "Less than" does not include the boundary value, so we use the strict inequality  $x < 5$  (not  $\leq$ ).
- 21) **Choice B is correct.** [MA.6.DP.1.6](#) The dependent variable depends on another variable. Pages read depends on time spent reading.
- 22) **Choice A is correct.** [MA.6.AR.3.5](#) Compare the unit prices. The 5-pack costs  $12.50 \div 5 = \$2.50$  per pack, while the 8-pack costs  $19.20 \div 8 = \$2.40$  per pack. The lower unit price is the better deal.
- 23) **Choice C is correct.** [MA.6.GR.1.1](#) The ratio is sugar:butter = 3:2. If sugar = 6, the scale factor is  $6 \div 3 = 2$ . So butter =  $2 \times 2 = 4$  cups.
- 24) **Choice D is correct.** [MA.6.AR.3.2](#) Scale: 1 cm = 2 m. Blueprint width: 8 cm. Actual width:  $8 \times 2 = 16$  meters.
- 25) **Choice B is correct.** [MA.6.AR.3.4](#) For constant  $k = 2.5$ :  $y/x = 2.5$ . When  $x = 6$ :  $y/6 = 2.5$ , so  $y = 6 \times 2.5 = 15$ .
- 26) **Choice A is correct.** [MA.6.NSO.2.1](#)  $3,564 \div 12 = 297$ . Check:  $12 \times 297 = 3,564$ .
- 27) **Choice B is correct.** [MA.6.NSO.1.2](#) -3.5 is closer to zero than -3.75, so -3.5 is greater. More negative means smaller.
- 28) **Choice C is correct.** [MA.6.DP.1.6](#) Split the ordered data into two halves. The lower half is 10, 14, 16, 22, so  $Q1 = \frac{14+16}{2} = 15$ . The upper half is 24, 26, 30, 35, so  $Q3 = \frac{26+30}{2} = 28$ . The IQR is  $28 - 15 = 13$ .



Scan me!  
For more practice  
& answers

### A Quiet Word From Your Mentor

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#### Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 7 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

#### What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

**Mentor's note:** on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Mentor

# MASTER TODAY. SUCCEED TOMORROW.

This Grade 6 Math Practice Tests book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on comprehensive assessments.

With 7 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop 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

★ 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.



### Deeper Understanding

Reinforce key concepts aligned with standards through meaningful practice.



### Test Confidence

Become familiar with test formats and improve accuracy and speed.



### 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.



7 FULL-LENGTH  
PRINTED TESTS



STANDARDS-  
ALIGNED PRACTICE



DETAILED ANSWER  
KEYS & EXPLANATIONS