

3

South Carolina

SC READY

GRADE

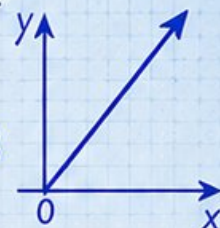
6

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

$$y = 2x + 3$$



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

$$36\% \text{ of } 150 = ?$$



3 | PRINTED TESTS



2 | ONLINE TESTS



Build Confidence



Master Key Math Skills



Answer Explanations for Every Question



Test-Taking Strategies That Work

USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.

3 South Carolina SC READY Grade 6 Math Practice Tests

Standards-Aligned Palmetto-State Practice Focus for South Carolina College and Career Ready Assessments

$436 + 289$ $A = 24$

1 2 3

3×10 $\frac{3}{4}$

complete South Carolina practice rounds

Three complete 40-question Grade 6 practice rounds for SC READY, built for palmetto-state practice focus 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, South Carolina Math Explorer!

Three focused rounds using palmetto-state practice focus

This book gives you three full Grade 6 practice tests for SC READY. Each round uses coastal marshes, city streets, and steady classroom 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 South Carolina Practice Promise

Read the problem like a route: spot the clues, choose the method, and check the result.

Read

Plan

Check

How to Use This Book

A three-session routine for palmetto-state practice focus

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

South Carolina review rhythm: Take one round, review with care, and carry one stronger habit into the next test.



What Is Inside?

Three SC READY tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Palmetto-state practice focus 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)



The dots show blue and red counters. What is the ratio of blue to red in fraction form?

A. $\frac{6}{9}$

B. $\frac{3}{9}$

C. $\frac{3}{2}$

D. $\frac{2}{1}$

2) If $\frac{3}{4}$ pound of coffee costs \$12, what is the cost per pound?

A. \$9

B. \$12

C. \$16

D. \$18

3) Alina earns \$400 each month. She saves 15% of her income for college. How much does she save each month?

A. \$15

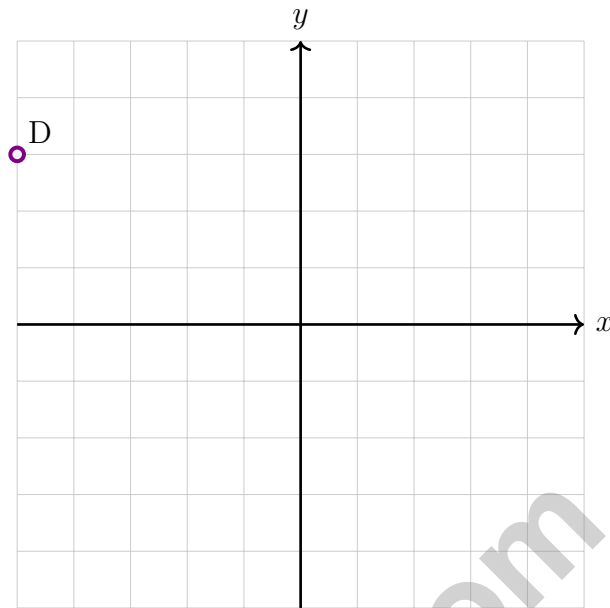
B. \$40

C. \$60

D. \$85



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4)

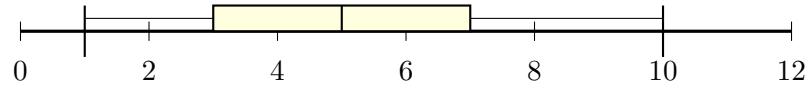
Point D is at $(-5, 3)$ and is reflected over the y -axis. What is the x -coordinate of D' ?

 A. -5 C. 5 B. 3 D. -3

5) If 60 out of 200 students walk to school, what percent walk?

 A. 6% C. 30% B. 20% D. 60% 6) A population of 500 ants decreases by 12% . How many ants remain? A. 60 C. 440 B. 380 D. 560 

1) Use the box plot below to determine which statement is true:

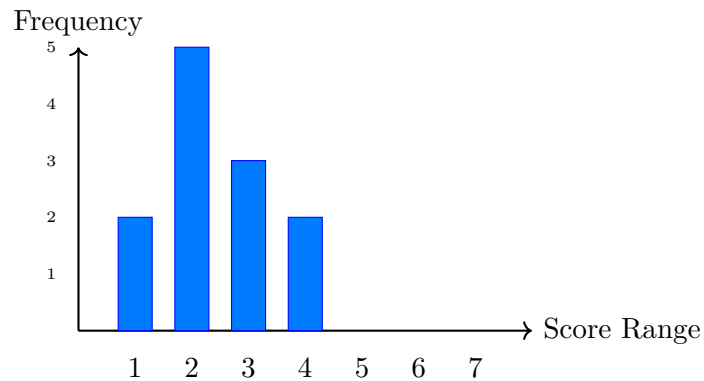


- A. $Q_1 = 3$, median = 5, $Q_3 = 7$ C. The IQR is 4.
 B. Min = 1, $Q_1 = 5$, median = 7 D. The range is 10.
- 2) Two circles have radii of 2 inches and 4 inches respectively. Using $\pi \approx 3.14$, what is the difference in their areas?
- A. 37.68 in^2 C. 6.28 in^2
 B. 12.56 in^2 D. 50.24 in^2
- 3) Which is a non-statistical question?
- A. How many inches tall are sixth graders in this school? C. What are the birth months of students in our class?
 B. How many wheels does a bicycle have? D. How much money do students spend on snacks each week?
- 4) What is the median of: 15, 20, 25, 30?
- A. 20 C. 25
 B. 22.5 D. 27.5



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5) The histogram shows the frequency distribution of test scores.



Which range has the highest frequency?

A. Range 1

C. Range 3

B. Range 4

D. Range 2

6) The mean absolute deviation (MAD) of a data set is the average distance of each data point from the mean. For the data 5, 7, 9, the mean is 7. The distances are $|5 - 7| = 2$, $|7 - 7| = 0$, $|9 - 7| = 2$. What is the MAD?

A. 0

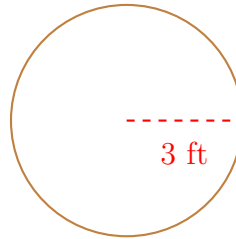
C. 2

B. $\frac{4}{3}$

D. 4



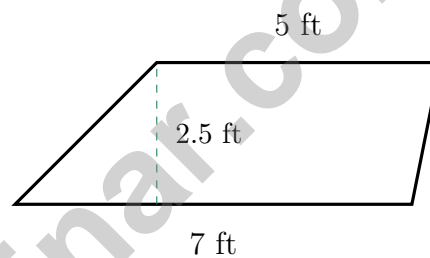
Circular Pool



1)

A circular pool has a radius of 3 feet. What is the approximate area using $\pi \approx 3.14$?

- A. 9.42 ft^2 C. 28.26 ft^2
 B. 18.84 ft^2 D. 56.52 ft^2



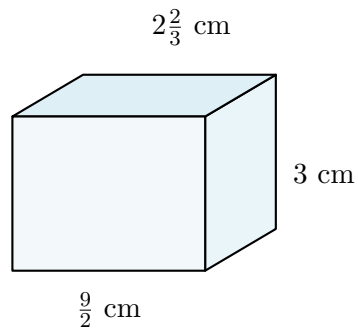
2)

What is the area of the trapezoid with bases 7 ft and 5 ft and height 2.5 ft?

- A. 14.5 ft^2 C. 17.5 ft^2
 B. 30 ft^2 D. 15 ft^2



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3)

What is the volume?

 A. 14 cm^3 C. 36 cm^3 B. 18 cm^3 D. 54 cm^3 4) A triangle has vertices at $(0, 0)$, $(6, 0)$, and $(3, 4)$. What is the length of the base? A. 4 units C. 6 units B. 5 units D. 7 units

South Carolina SC READY Practice Test Answer Keys

How to use this South Carolina SC READY 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 palmetto-state practice focus
3. rework the problem before reading the full explanation, using this reminder:
Read the problem like a route: spot the clues, choose the method, and check the result.

A calm South Carolina correction routine turns every missed item into useful practice. Take one round, review with care, and carry one stronger habit into the next test.



Scan me!
For more practice
& answers

South Carolina Practice Test Answers and Explanations

Review the three printed SC READY tests with steady, attentive, and ready for the next route habits.

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(6.PAFR.2.6)** Count blue first and red second: there are 6 blue and 3 red, so the ratio is $\frac{6}{3}$. Divide the numerator and denominator by 3 to get $\frac{2}{1}$, which means there are 2 blue counters for every 1 red.
- 2) **Choice C is correct.** **(6.PAFR.2.8)** Unit price: $12 \div \frac{3}{4} = 12 \times \frac{4}{3} = 16$ dollars per pound.
- 3) **Choice C is correct.** **(6.NR.2.4)** 15% of \$400 is $0.15 \times 400 = \$60$.
- 4) **Choice C is correct.** **(6.MGSR.3.2)** Reflection over the y -axis negates the x -coordinate: $-5 \rightarrow 5$.
- 5) **Choice C is correct.** **(6.PAFR.2.7)** $\frac{60}{200} = \frac{30}{100} = 30\%$ (divide both by 2).
- 6) **Choice C is correct.** **(6.PAFR.2.6)** Decrease is 12% of 500 = $0.12 \times 500 = 60$. Remaining is $500 - 60 = 440$ ants.
- 7) **Choice A is correct.** **(6.PAFR.2.9)** Divide: $2500 \div 1000 = 2.5$ kg. The student's error of multiplying would give an absurdly large number.
- 8) **Choice B is correct.** **(6.PAFR.1.1)** Both equations ($p = 8h$ and $p = 6h$) pass through the origin, so both relationships are proportional. Student A earns \$8 per hour, which makes that line steeper than Student B's \$6-per-hour line.
- 9) **The correct answer is 40 miles per hour.** **(6.PAFR.2.6)** Divide distance by time: $360 \div 9 = 40$ miles per hour.
- 10) **Choice C is correct.** **(6.PAFR.1.2)** Rent is \$500 out of \$1000: $\frac{500}{1000} = 0.50 = 50\%$.
- 11) **Choice A is correct.** **(6.PAFR.2.7)** Drawing 1: $5 \times 2 = 10$ m and $4 \times 2 = 8$ m. Drawing 2: $10 \times 1 = 10$ m and $8 \times 1 = 8$ m. Same field.
- 12) **Choice B is correct.** **(6.NR.2.3)** $\frac{6}{7} \times \frac{3}{2} = \frac{18}{14} = \frac{9}{7}$.
- 13) **Choice A is correct.** **(6.PAFR.3.7)** $3,744 \div 16 = 234$. The restaurant received 234 boxes.
- 14) **Choice A is correct.** **(6.PAFR.3.7)** Multiply: $63 \times 9 = 567$. With $1 + 1 = 2$ decimal places total, the answer is 5.67.
- 15) **Choice D is correct.** **(6.PAFR.2.6)** This is a GCF problem. The GCF of 35 and 49 is 7. So they can make 7 rows with 5 tomato and 7 pepper plants per row.
- 16) **Choice A is correct.** **(6.MGSR.1.4)** The rectangle has height 3 and is divided horizontally into two widths: 2 and 5. The total area is $3 \times 2 + 3 \times 5 = 3(2 + 5)$.
- 17) **Choice B is correct.** **(6.NR.2.4)** The difference in elevation is $6000 - (-500) = 6000 + 500 = 6500$ feet.
- 18) **Choice B is correct.** **(6.PAFR.3.1)** $|2| = 2$ and $|-2| = 2$. Numbers that are opposites have equal absolute values.
- 19) **The correct answer is A: The ratio simplifies to 3 : 2; B: For every 3 action figures there are 2 dolls..** **(6.PAFR.2.6)** Divide both parts of 6 : 4 by 2 to get 3 : 2. That makes A correct, and B is the same relationship in words.
- 20) **Choice B is correct.** **(6.PAFR.3.1)** Midpoint = $\frac{-2.5 + (-1.5)}{2} = \frac{-4}{2} = -2$.
- 21) **Choice D is correct.** **(6.MGSR.3.1)** The x -coordinate stays at 1, but the y -coordinate changes from -6 to 6, which is a reflection across the x -axis.
- 22) **Choice A is correct.** **(6.PAFR.3.1)** City A has the lowest temperature at $-5^\circ C$. Ordering: $-5 < -1 < 0 < 2$.
- 23) **The correct answer is 0.25 cup.** **(6.PAFR.2.5)** $8 \div 32 = 0.25$ cups (or $\frac{1}{4}$ cup) per serving.
- 24) **Choice A is correct.** **(6.MGSR.3.2)** Correct: $|3 - 7| = |-4| = 4$ units. Distance is always positive; must use absolute value.
- 25) **The correct answer is 27.** **(6.PAFR.3.2)** The ratio is 6 : 9 or 2 : 3. For 18 pounds: $18 \div 2 \times 3 = 27$ dollars.
- 26) **The correct answer is 7.** **(6.MGSR.3.2)** The constant of proportionality is $k = \frac{y}{x} = \frac{21}{3} = 7$ or $\frac{49}{7} = 7$. The unit rate is 7.
- 27) **Choice C is correct.** **(6.PAFR.3.5)** Opposite integers sum to zero: $-6 + 6 = 0$. The opposite of -6 is 6.



Ahoy, Math Sailor!

◇ You sailed through 3 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 3 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 full-length Math practice tests and 2 online tests to help Grade 6 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:

- 3 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 & Rates
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ 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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AND LEARNING RESOURCES



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REGULARLY



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SOLVE
CONFIDENTLY



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BRIGHTLY

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