

4 South Carolina SC READY

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

PRINTED
TESTS



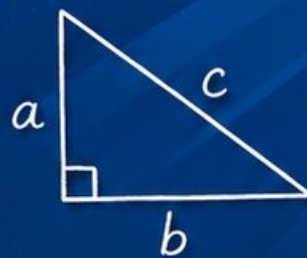
2

ONLINE
TESTS



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



USE THESE TWO
**ADDITIONAL ONLINE
PRACTICE TESTS**

FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.

4 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 4

4×10 $\frac{4}{5}$

4

complete South Carolina practice rounds

Four 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



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome, South Carolina Math Explorer!

Four focused rounds using palmetto-state practice focus

This book gives you four 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 four-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?

Four SC READY tests, 160 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
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

Table of Contents

★ Practice Test 1	_____	13
★ Practice Test 2	_____	28
★ Practice Test 3	_____	44
★ Practice Test 4	_____	59
Practice Test Answer Keys	_____	76
Practice Test Answers and Explanations	_____	79

1) What is $(-2) \times (-3) \times (-5)$?

A. -30

C. 10

B. 30

D. -10

2) In which quadrant would the point $(-6, -8)$ be located?

A. Quadrant I

C. Quadrant III

B. Quadrant II

D. Quadrant IV

3) A student ordered $-4.2, -4.1, 0.3$ as: $0.3, -4.1, -4.2$. What error did the student make?

A. Forgot that negatives are less than positives

C. Confused decimal places

B. Thought $-4.2 > -4.1$

D. Used correct order

4) A store buys items for \$40 and sells them with a 50% markup. What is the selling price?

5) On a map, the library is at $(3, 5)$ and the park is at $(9, 5)$. If each unit represents 100 meters, what is the distance between the library and the park in meters?

A. 400 m

C. 600 m

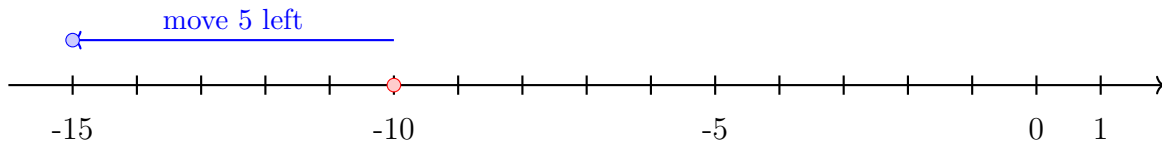
B. 500 m

D. 700 m



Scan me!
For more practice
& answers

6) What is $-10 + (-5)$?



A. -15

C. 5

B. -5

D. 15

7) A parallelogram has an area of 75 cm^2 and a height of 5 cm. What is the base length?

A. 10 cm

C. 20 cm

B. 25 cm

D. 15 cm

8) A rectangular prism has a base area of 12 in^2 and a height of 5 in. What is its volume?

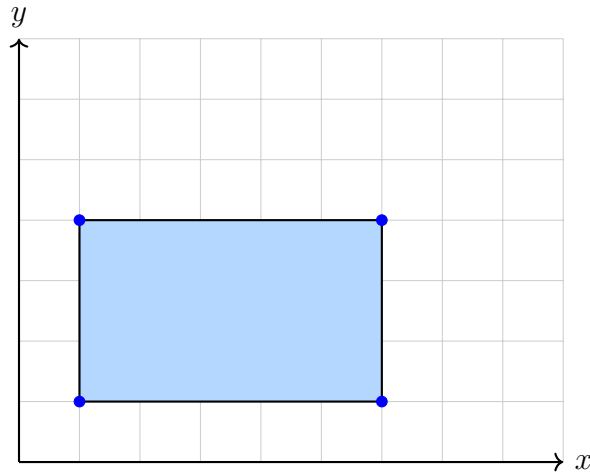
A. 17 in^3

C. 36 in^3

B. 24 in^3

D. 60 in^3





9)

What is the area of this rectangle?

A. 10 square units

C. 18 square units

B. 13 square units

D. 15 square units

10) If $\frac{1}{4}$ gallon of paint costs \$8, how much does 1 gallon of paint cost?



Scan me!
For more practice
& answers

1) What is $6,292 \div 34$? Round to the nearest whole number if there is a remainder.

A. 185

C. 190

B. 187

D. 192

2) A researcher asks students: “How many minutes did you exercise yesterday?”
Which describes the population being sampled?

A. All students in the school

C. The students who answered the
survey

B. The number of minutes in a day

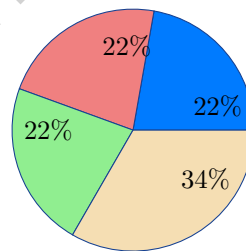
D. All sixth graders in the state

3) Four numbers have a mean of 25. Three of them are 20, 28, 32. What is the fourth number?

4) A student’s homework scores over 9 assignments are: 85, 90, 88, 92, 88, 95, 87, 91, 86.
What is the median score?



- 5) A quality control manager receives monthly defect counts: 2, 3, 4, 5, 6, 8, 10, 15. She wants to determine if the process is stable. Should she use the mean or median?
- A. Mean, because it uses all data points
 B. Median, because the high count of 15 may be an unusual spike
 C. Mode, because it is the most stable measure
 D. Range, because it shows the worst-case scenario
- 6) A restaurant offers a choice of 3 soups, 4 main dishes, and 2 desserts. How many different meal combinations are possible if you choose one item from each category?
- A. 9
 B. 12
 C. 24
 D. 36
- 7) A 3-digit number has a stem-and-leaf representation with stem 23 and leaf 5. What is the number?
- A. 235
 B. 325
 C. 253
 D. 52



- 8) A circle graph shows that three sections each represent approximately 22% and one section represents approximately 34%. If the total is 450 items, how many items are in the largest section?
- A. 99
 B. 130
 C. 150
 D. 170



Scan me!
For more practice
& answers

1) A painter paints 48 square feet in 2 hours. What is the rate in square feet per hour?

- A. 20 square feet per hour C. 50 square feet per hour
 B. 96 square feet per hour D. 24 square feet per hour

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

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

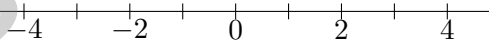
3) What is the GCF of 14 and 21?

- A. 2 C. 14
 B. 21 D. 7

4) Factor $20 + 16$ using the GCF.

- A. $2(10 + 8)$ C. $5(4 + 3.2)$
 B. $4(5 + 4)$ D. $8(2.5 + 2)$

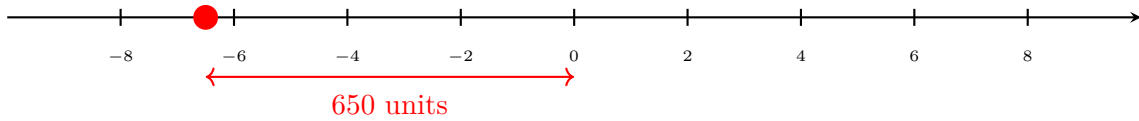
5) On a number line, which two integers are exactly 8 units apart?



- A. -4 and 0 C. 0 and 4
 B. -2 and 2 D. -4 and 4



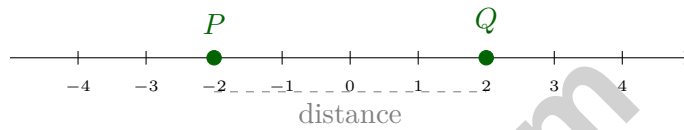
Scan me!
For more practice
& answers



6)

A submarine is 650 feet below sea level. Which expression represents this depth using absolute value?

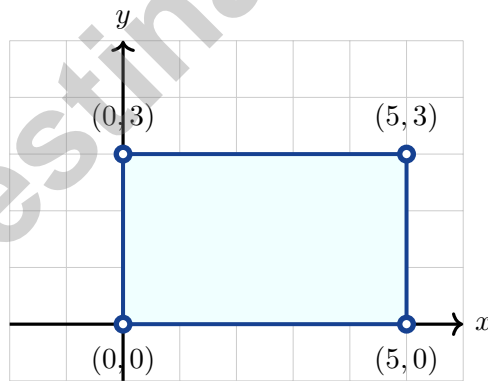
- A. $|-650|$
 C. -650
 B. $|650|$
 D. 650



7)

The distance between P and Q is:

- A. 2 units
 C. 4 units
 B. 0 units
 D. -4 units



8)

A rectangle has vertices at $(0,0)$, $(5,0)$, $(5,3)$, and $(0,3)$. What is the perimeter?

- A. 8 units
 C. 16 units
 B. 15 units
 D. 18 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.



South Carolina Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (6.PAFR.3.5) First: $(-2) \times (-3) = 6$ (positive). Then: $6 \times (-5) = -30$ (positive times negative is negative).
- 2) **Choice C is correct.** (6.MGSR.3.1) Both the x -coordinate and y -coordinate are negative, so the point is in Quadrant III (lower left).
- 3) **Choice A is correct.** (6.PAFR.3.1) The correct order is $-4.2 < -4.1 < 0.3$. Negatives are always less than positive numbers.
- 4) **The correct answer is 60.** (6.PAFR.2.6) Markup is 50% of $\$40 = 0.50 \times 40 = \20 . Selling price is $\$40 + \$20 = \$60$.
- 5) **Choice C is correct.** (6.MGSR.3.2) Same y -coordinate: $|9 - 3| = 6$ units. Distance: $6 \times 100 = 600$ meters.
- 6) **Choice A is correct.** (6.PAFR.3.5) When adding two negative integers, add their absolute values and make the result negative: $|-10| + |-5| = 15$, so $-10 + (-5) = -15$.
- 7) **Choice D is correct.** (6.MGSR.1.4) Using $A = b \times h$: $75 = b \times 5$, so $b = 15$ cm.
- 8) **Choice D is correct.** (6.MGSR.1.5) Using $V = B \times h = 12 \times 5 = 60$ in³.
- 9) **Choice D is correct.** (6.MGSR.3.2) Length $= 6 - 1 = 5$ units; width $= 4 - 1 = 3$ units. Area $= 5 \times 3 = 15$ square units.
- 10) **The correct answer is 32.** (6.PAFR.2.8) Unit cost: $8 \div \frac{1}{4} = 8 \times 4 = 32$ dollars per gallon.
- 11) **Choice A is correct.** (6.MGSR.1.4) Rectangle: base $9 - 1 = 8$, height $5 - 1 = 4$, area $= 32$ square units. Triangle: base $9 - 1 = 8$, height $8 - 5 = 3$, area $= \frac{1}{2} \times 8 \times 3 = 12$ square units. Total $= 32 + 12 = 44$ square units.
- 12) **Choice C is correct.** (6.MGSR.1.3) $SA = 6s^2 = 6(9)^2 = 6(81) = 486$ cm².
- 13) **Choice A is correct.** (6.MGSR.3.2) Reflections preserve shape and size; only position and possibly orientation change.
- 14) **Choice A is correct.** (6.MGSR.1.3) Radius $r = \frac{10}{2} = 5$ ft. Area $= \pi r^2 \approx 3.14 \times 5^2 = 3.14 \times 25 = 78.5$ ft².
- 15) **Choice D is correct.** (6.PAFR.2.6) The middle 50% is the IQR: $Q_3 - Q_1 = 20 - 8 = 12$.
- 16) **Choice A is correct.** (6.PAFR.1.1) For a proportional relationship, when hours $= 0$, pay must $= 0$. Here, when hours $= 0$, pay $= \$5$ (a fixed fee), so the relationship is not proportional. The equation is $p = 5h + 5$, which includes a non-zero constant term.
- 17) **Choice D is correct.** (6.PAFR.1.2) 3 years $= 36$ months. Total: $\$75 \times 36 = \2700 .
- 18) **The correct answer is 1.8.** (6.PAFR.2.9) Divide: $180 \text{ cm} \div 100 \text{ cm/meter} = 1.8$ meters.
- 19) **Choice B is correct.** (6.PAFR.2.7) To find the diagram length, divide the actual length by the scale factor: $18 \div 2 = 9$ inches.
- 20) **Choice B is correct.** (6.NR.2.3) Rewrite $\frac{1}{4}$ as $\frac{5}{4}$, then multiply by the reciprocal $\frac{6}{5}$: $\frac{5}{4} \times \frac{6}{5} = \frac{30}{20} = \frac{3}{2}$. Student A's $\frac{15}{20}$ simplifies to $\frac{3}{4}$, which doesn't match.
- 21) **Choice A is correct.** (6.PAFR.3.7) Check by multiplying and adding the remainder: $22 \times 194 = 4,268$, and $4,268 + 16 = 4,284$. The remainder 16 is less than 22, so Mika's answer is correct.
- 22) **The correct answer is $0.45 = \frac{45}{100} = \frac{9}{20}$;** $75\% = \frac{75}{100} = \frac{3}{4}$. (6.PAFR.2.7) A is correct: $0.45 = \frac{9}{20}$ (both equal 45 out of 100). C is correct: $75\% = \frac{3}{4}$ (both equal 75 out of 100). B is wrong: $\frac{1}{2} = 50\%$, not 40%. D is wrong: $\frac{1}{5} = 20\%$, not 25%. E is wrong: $0.33 \approx 33\%$ but $\frac{1}{3} \approx 33.\bar{3}\%$ (not exact).
- 23) **Choice A is correct.** (6.PAFR.3.7) $52 \times 3 = 156$. Since 5.2 has one decimal place, the product is 15.6.



Scan me!
For more practice
& answers

A Note From Your Math Friend

Hi, Math Star!

◇ Wow! You finished 4 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 4 tests, you learned that trying is the most important thing. ★

Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

Big tip for test day: take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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

Jay Daie

Your Math Friend

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 4 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:

4 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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ And More!



2 ONLINE TESTS

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



VISIT [TESTINAR.COM/MATH6](https://www.testinar.com/math6)
FOR MORE PRACTICE TESTS
AND LEARNING RESOURCES



PRACTICE
REGULARLY



STAY
FOCUSED



SOLVE
CONFIDENTLY



SUCCEED
BRIGHTLY

PREPARE TODAY. SUCCEED TOMORROW!