

9

South Carolina SC READY

GRADE

6

MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



9 PRINTED TESTS

Realistic practice to build confidence and mastery



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



9 PRINTED TESTS
+2 ONLINE TESTS

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

PRACTICE TODAY.
SUCCEED TOMORROW.



PRACTICE



REVIEW



SUCCEED

9 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 5 6 7 8 9

7×8 $\frac{5}{6}$

complete South Carolina practice rounds

Nine 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!

Nine focused rounds using palmetto-state practice focus

This book gives you nine 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 nine-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?

Nine SC READY tests, 360 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 7–9	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. 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	_____	45
★ Practice Test 4	_____	60
★ Practice Test 5	_____	75
★ Practice Test 6	_____	92
★ Practice Test 7	_____	109
★ Practice Test 8	_____	125
★ Practice Test 9	_____	142
Practice Test Answer Keys	_____	157
Practice Test Answers and Explanations	_____	163

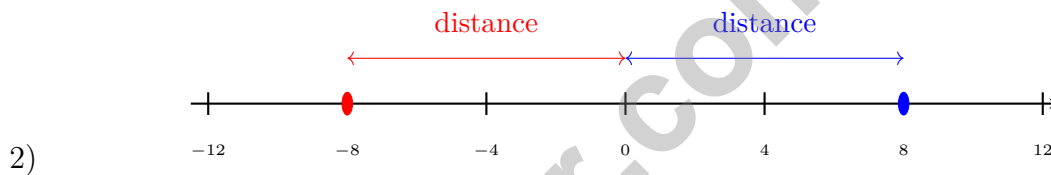
1) Study the annotated expression:

$$\boxed{10x} + \boxed{2y} - \boxed{6} + \boxed{4z}$$

constant
variable terms: $10x$, $2y$, and $4z$

How many terms contain a variable in this expression?

- A. 1 C. 3
 B. 2 D. 4



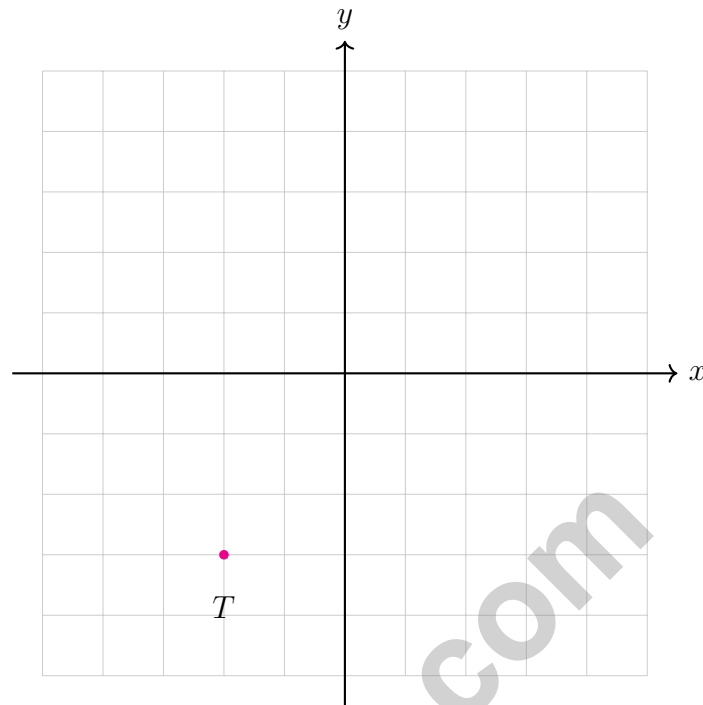
The two points shown have the same distance from zero. What is their relationship?

- A. They are opposites C. They sum to 1
 B. They are equal D. They are both positive
- 3) On a number line, the distance from -4 to 2 is equal to the distance from 0 to which number?

- A. -6 C. 6
 B. 3 D. 8



Scan me!
For more practice
& answers



4)

What is the reflection of point T across the x -axis?

- A. $(-2, 3)$
- B. $(2, -3)$
- C. $(2, 3)$
- D. $(-2, -3)$

5)

Category	Amount (\$)
Rent	1200
Food	400
Utilities	250
Entertainment	150

Based on the table, what is the total monthly budget?

- A. \$1400
- B. \$1650
- C. \$2000
- D. \$2200

6) Bus Route A stops every 8 minutes. Bus Route B stops every 12 minutes. If both buses just left the station, when will they both be at the station again at the same time?

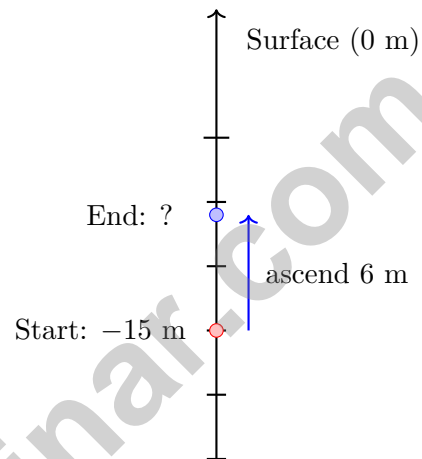
A. In 8 minutes

C. In 20 minutes

B. In 12 minutes

D. In 24 minutes

7) An underwater diver is at a depth of -15 meters. She ascends 6 meters. At what depth is she now?



A. -21 meters

C. 9 meters

B. -9 meters

D. 21 meters

8) What is $\frac{30}{-5}$?

A. 6

C. 25

B. -6

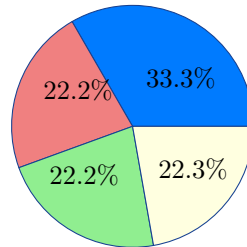
D. -25



Scan me!
For more practice
& answers

1) How many quadrants have points with at least one positive coordinate?

- A. 1 C. 3
 B. 2 D. 4



2)

A circle graph shows 350 data points distributed as shown. If the 33.3% section is selected for sampling, approximately how many items will be sampled?

- A. 110 C. 120
 B. 115 D. 125

3) Which question BEST represents the core concept of a statistical question?

**A statistical question expects variability
and is answered by collecting data
from multiple sources.**

Which example matches this definition?

- A. What time does the bus arrive at school?
 B. What is the name of my best friend?
 C. How many days are in a week?
 D. How many siblings do students in my grade have?



4) Find the mean of 20, 30, 40, 50.

A. 30

C. 40

B. 35

D. 45

5) In a box plot, what percentage of data lies between Q_1 and Q_3 ?

A. 25%

C. 75%

B. 100%

D. 50%

6) A fitness app records heart rates (bpm). The stem-and-leaf plot shows:

Stem	Leaf
6	8
7	2, 4, 6, 8
8	1, 3, 5, 7, 9
9	0, 2

Which range contains the most recorded heart rates?

A. 80 – 89 bpm

C. 60 – 69 bpm

B. 70 – 79 bpm

D. 90 – 99 bpm

7) A pictograph shows students' favorite fruits using symbols where each symbol = 4 students. If the apple row has 5 symbols, how many students prefer apples?

A. 5 students

C. 24 students

B. 9 students

D. 20 students



Scan me!
For more practice
& answers

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

Practice Test 1 Answers and Explanations

- Choice C is correct.** **(6.PAFR.2.1)** The terms with variables are $10x$, $2y$, and $4z$. The constant -6 has no variable.
- Choice A is correct.** **(6.PAFR.3.1)** The points shown are the same distance from zero on opposite sides, so they are opposites.
- Choice C is correct.** **(6.PAFR.3.1)** Distance from -4 to 2 is $2 - (-4) = 6$. Distance from 0 to 6 is also 6 .
- Choice A is correct.** **(6.MGSR.3.1)** Point T is at $(-2, -3)$. Reflecting across the x -axis changes the sign of the y -coordinate, giving $(-2, 3)$.
- Choice C is correct.** **(6.PAFR.1.2)** Total: $\$1200 + \$400 + \$250 + \$150 = \$2000$.
- Choice D is correct.** **(6.PAFR.2.7)** Multiply: $12 \times 5 = 60$ feet.
- Choice B is correct.** **(6.PAFR.2.6)** $84 = 4 \times 21 = (2 \times 2) \times (3 \times 7) = 2^2 \times 3 \times 7$. Options A, C, and D contain composite numbers.
- Choice A is correct.** **(6.MGSR.1.4)** Distributive property: $4(7 + 8) = 4 \cdot 7 + 4 \cdot 8 = 28 + 32 = 60$. Choice A shows the expanded form.
- Choice C is correct.** **(6.PAFR.3.1)** Negatives come before positives. $-\frac{3}{4} = -0.75 < -\frac{1}{4} = -0.25 < \frac{1}{4} = 0.25 < \frac{3}{4} = 0.75$.
- Choice B is correct.** **(6.PAFR.3.5)** Negative times negative is positive, so $(-5) \times (-6) = 30$. The student incorrectly applied the sign rule.
- Choice C is correct.** **(6.PAFR.2.3)** The tree shows $(m - 7)$ divided by 2 to produce $\frac{m - 7}{2}$, representing the quotient of a difference and 2 .
- The correct answer is 2,500.** **(6.PAFR.2.9)** Multiply by the conversion factor: $2.5 \text{ liters} \times 1000 \text{ mL/liter} = 2500 \text{ mL}$.
- Choice D is correct.** **(6.PAFR.2.5)** The pattern is cost = $15 \times$ number of pizzas. At 5 pizzas: $15 \times 5 = 75$ dollars.
- The correct answer is 25000.** **(6.NR.2.4)** 25% of $\$100000 = 0.25 \times 100000 = \25000 .
- Choice A is correct.** **(6.PAFR.1.1)** The total cost should equal the price per shirt times the number of shirts: $t = 25s$. Writing $s = 25t$ swaps the dependent and independent variables.
- Choice D is correct.** **(6.MGSR.1.1)** $77 = \frac{1}{2} \times 14 \times h \Rightarrow h = 11$ ft.
- Choice B is correct.** **(6.MGSR.1.5)** Volume = $3 \times 2 \times 2 = 12$ unit cubes.
- Choice C is correct.** **(6.MGSR.3.2)** Side length = 4 units. Perimeter = $4 \times 4 = 16$ units.
- Choice D is correct.** **(6.MGSR.1.3)** A straight line of 6 unit squares cannot fold into a cube without overlap or gaps. Valid cube nets require a more compact 2D arrangement (like a cross or T-shape) such that the net folds into 3D with no overlaps.
- Choice C is correct.** **(6.MGSR.1.3)** The student calculated $\pi r \approx 3.14 \times 4 = 12.56$ (which is the circumference formula). The correct area is $\pi r^2 \approx 3.14 \times 16 = 50.24 \text{ m}^2$.
- Choice A is correct.** **(6.PAFR.1.1)** The box spans from Q1 to Q3, which is the IQR = $60 - 30 = 30$. This represents the middle 50% of the data.
- The correct answer is The graph is a straight line through the origin, and the ratio of y to x is always constant.** **(6.PAFR.1.1)** Statements A and B correctly describe proportional relationships. C is wrong because b must equal 0 for proportionality. D is wrong because proportional equations have the form $y = kx$, not $y = k/x$. E is wrong because a proportional relationship must start at the origin.
- Choice A is correct.** **(6.PAFR.3.7)** Treat it like whole numbers first: $46 \times 8 = 368$. Together the factors tuck in two decimal places, so the "real" answer is cozy at 3.68 .
- The correct answer is $3\frac{1}{2}$.** **(6.NR.2.3)** First change $1\frac{3}{4}$ to $\frac{7}{4}$, then divide by $\frac{1}{2}$ by multiplying by 2 : $\frac{7}{4} \times 2 = \frac{14}{4} = 3\frac{1}{2}$.



Scan me!
For more practice
& answers

Hi, Math Athlete!

◇ 9 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

PRACTICE MORE. ACHIEVE MORE.

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 any test.

With 9 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 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.



9 PRINTED
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS