

8

South Carolina

SC READY

GRADE 6

MATH

PRACTICE TESTS

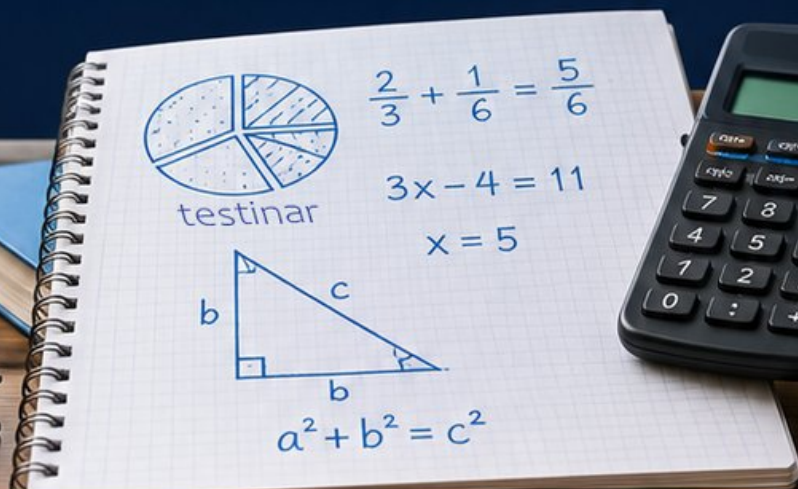
8
PRINTED
TESTS

+

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



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 South Carolina SC READY Grade 6 Math Practice Tests

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



Eight 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!

Eight focused rounds using palmetto-state practice focus

This book gives you eight 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 eight-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?

Eight SC READY 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.
Tests 7–8	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	_____	29
★ Practice Test 3	_____	44
★ Practice Test 4	_____	59
★ Practice Test 5	_____	75
★ Practice Test 6	_____	91
★ Practice Test 7	_____	106
★ Practice Test 8	_____	122
Practice Test Answer Keys	_____	140
Practice Test Answers and Explanations	_____	145

1) Which net is a valid net for a cube?



- A. Yes, this straight line of 6 squares folds into a cube
- B. No, it will have overlapping faces
- C. No, there will be gaps
- D. Yes, but only when rotated
- 2) A student reads 12 pages per day from a novel. If d represents days and p represents total pages read, which equation is correct?
- A. $d = 12p$
- B. $d = p - 12$
- C. $p = d + 12$
- D. $p = 12d$
- 3) What is the length of a horizontal segment from $(2, 4)$ to $(8, 4)$?
- A. 4 units
- B. 5 units
- C. 7 units
- D. 6 units
- 4) Which expression represents “a number s increased by 6”?
- A. $6 - s$
- B. $s + 6$
- C. $s - 6$
- D. $6s$
- 5) What is the coefficient of m in the expression $m + 5n + 2$?
- A. 0
- B. 1
- C. 5
- D. 2



Scan me!
For more practice
& answers

6) Evaluate $9 + 3n - n$ when $n = 2$.

A. 8

C. 21

B. 10

D. 13

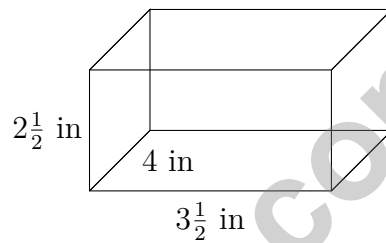
7) The weight of a piece of luggage must not exceed 50 pounds. Which inequality best represents this, where w is the weight?

A. $w > 50$

C. $w < 50$

B. $w \leq 50$

D. $w \geq 50$



8)

What is the volume of this rectangular prism?

A. 10 in^3

C. 35 in^3

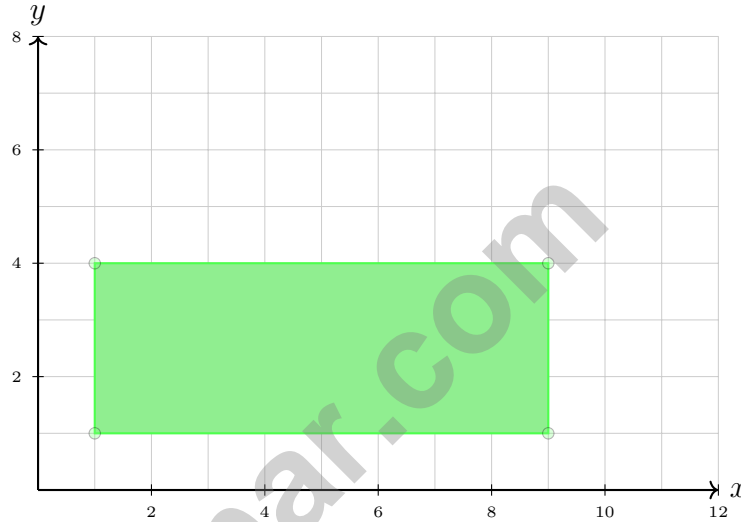
B. 28 in^3

D. 42 in^3

9) A closed circle at -4 with an arrow right uses what boundary number?



- 10) A right triangle has legs of 11 inches and 18 inches. Calculate the area of the triangle.



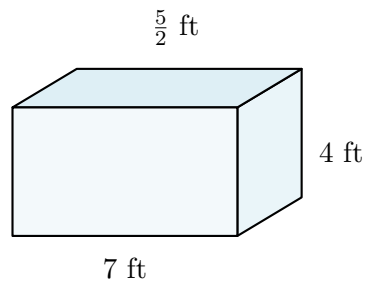
11)

A garden plot is rectangular with vertices at $(1, 1)$, $(9, 1)$, $(9, 4)$, and $(1, 4)$. What is the area of the garden?

- A. 18 square units C. 24 square units
 B. 21 square units D. 27 square units
- 12) A market researcher surveys customers about how much they spend on groceries each month. Why is this a statistical question?
- A. Because money is involved. D. Because different customers spend different amounts.
 B. Because surveys are statistical.
 C. Because groceries are necessary.



Scan me!
For more practice
& answers

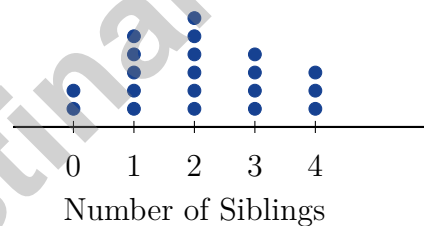


1)

Calculate the volume.

- A. 35 ft^3 C. 70 ft^3
 B. 56 ft^3 D. 140 ft^3

2) A dot plot shows the number of siblings each student has. The distribution is: 0 siblings: 2 students; 1 sibling: 5 students; 2 siblings: 6 students; 3 siblings: 4 students; 4 siblings: 3 students. Which best describes the shape of this distribution?



- A. Symmetric C. Skewed left
 B. Skewed right D. Bimodal

3) Solve for x : $x - 8 = 6$

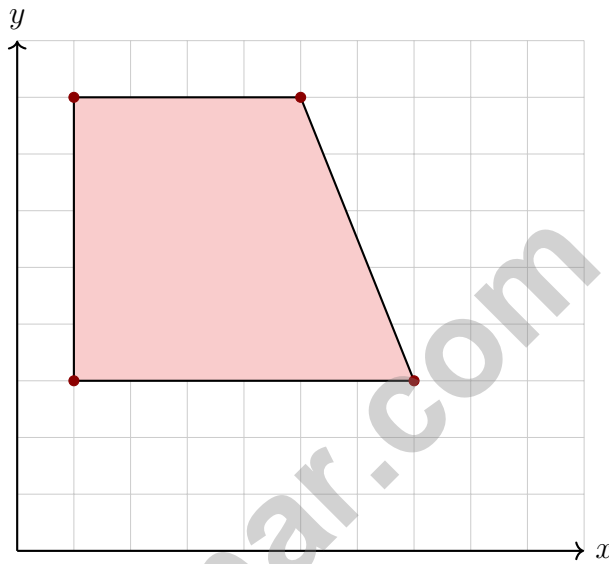
- A. $x = 2$ C. $x = 14$
 B. $x = 6$ D. $x = 48$



Scan me!
For more practice
& answers

4) The equation $s = 3.5t$ describes the relationship between distance s (in miles) and time t (in hours). What does 3.5 represent?

- A. Time in hours
- B. Distance in miles
- C. Speed in miles per hour
- D. Number of minutes



5)

What is the length of the top side?

- A. 4 units
- B. 5 units
- C. 6 units
- D. 7 units

1) Find the median of 2, 5, 8, 11, 14, 17.

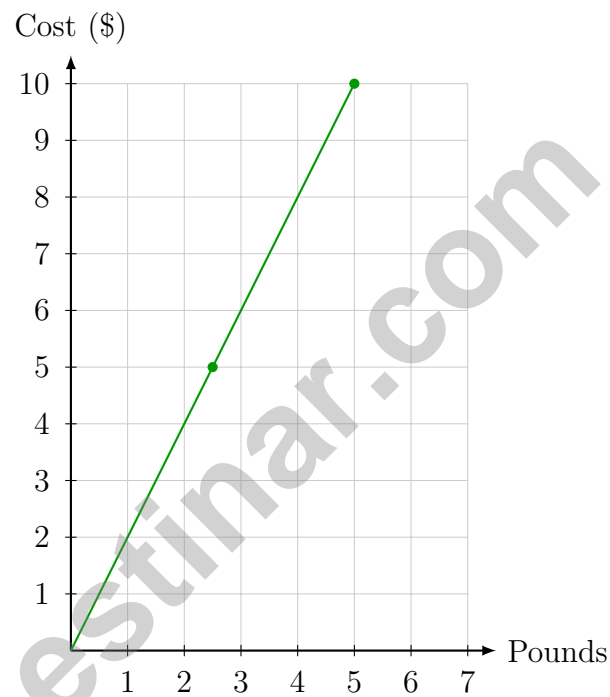
A. 9.5

C. 11

B. 8

D. 10

2) The graph shows the cost of buying apples at a farmer's market.



What is the cost per pound?

A. \$1 per pound

C. \$2 per pound

B. \$1.50 per pound

D. \$2.50 per pound



3) How many positive factors does 48 have?

4) What is the volume of a rectangular prism with length 6 in, width 4 in, and height 2 in?

A. 12 in^3

C. 36 in^3

B. 24 in^3

D. 48 in^3

5) A polygon has vertices at $(2, 3)$, $(2, 7)$, and $(6, 3)$. What shape is this?

A. Triangle

C. Square

B. Trapezoid

D. Pentagon

6) A rectangle has vertices at $(1, 1)$, $(5, 1)$, $(5, 4)$, and $(1, 4)$. What is the perimeter of this rectangle?

A. 14 units

C. 18 units

B. 16 units

D. 20 units

7) In the expression $-12z + 8w$, what is the coefficient of z ?

A. $-12z$

C. 12

B. -12

D. 8



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.



South Carolina Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(6.MGSR.1.3)** A straight line of 6 unit squares cannot fold into a cube without overlap. This is a well-known invalid cube net.
- 2) **Choice D is correct.** **(6.PAFR.1.1)** Pages read equals pages per day multiplied by number of days. The equation is $p = 12d$.
- 3) **Choice D is correct.** **(6.MGSR.3.2)** For a horizontal segment, subtract the x -coordinates: $8 - 2 = 6$ units.
- 4) **Choice B is correct.** **(6.PAFR.2.3)** "Increased by 6" means add 6. So s increased by 6 is $s + 6$.
- 5) **Choice B is correct.** **(6.PAFR.2.1)** When a variable appears with no visible number, the coefficient is 1. So $m = 1m$.
- 6) **Choice D is correct.** **(6.PAFR.2.3)** Simplify: $9 + 3n - n = 9 + 2n$. Substitute $n = 2$: $9 + 2(2) = 9 + 4 = 13$.
- 7) **Choice B is correct.** **(6.PAFR.3.1)** "Must not exceed" means at most 50: $w \leq 50$.
- 8) **Choice C is correct.** **(6.MGSR.1.5)** $V = 3.5 \times 2.5 \times 4 = 8.75 \times 4 = 35 \text{ in}^3$.
- 9) **The correct answer is -4 .** **(6.PAFR.3.1)** The boundary number is the point where the graph starts: -4 .
- 10) **The correct answer is 99.** **(6.MGSR.1.1)** $A = \frac{1}{2} \times 11 \times 18 = 99 \text{ in}^2$.
- 11) **Choice C is correct.** **(6.MGSR.1.4)** Width: $9 - 1 = 8$ units. Height: $4 - 1 = 3$ units. Area = $8 \times 3 = 24$ square units.
- 12) **Choice D is correct.** **(6.MGSR.1.4)** Variability in spending is what makes this statistical. Different customers have different budgets and spending patterns, so data must be collected to answer the question.
- 13) **Choice B is correct.** **(6.DPSR.1.3)** Sum = $2 + 2 + 3 + 3 + 3 + 3 + 4 + 4 + 4 + 5 + 6 + 6 = 38$. Mean = $38 \div 10 = 3.8$, which rounds to 4.
- 14) **Choice B is correct.** **(6.DPSR.1.2)** For consecutive integers, the mean equals the middle value: 12.
- 15) **Choice C is correct.** **(6.DPSR.1.4)** Range depends solely on the maximum and minimum, ignoring all middle values. It is found by subtracting the minimum from the maximum, not by adding them.
- 16) **The correct answer is 50.** **(6.MGSR.1.4)** Area = $\frac{1}{2}(12 + 8) \times 5 = \frac{1}{2}(20)(5) = 50 \text{ cm}^2$.
- 17) **Choice A is correct.** **(6.DPSR.1.2)** Standard deviation measures spread. Hawks' lower standard deviation ($8 < 14$) indicates more consistent scoring around their mean.
- 18) **Choice C is correct.** **(6.DPSR.2.2)** The spinner has only red, blue, yellow, and green sections. Purple is impossible because it does not appear on the spinner.
- 19) **Choice B is correct.** **(6.DPSR.1.2)** Values range from 24 to 35, covering stem 2 (20s: 24, 26, 28, 29) and stem 3 (30s: 31, 32, 35).
- 20) **The correct answer is Comparing rational numbers on a number line.** **(6.PAFR.3.1)** Statement B is correct: -0.6 is to the right of -0.8 on the number line, so $-0.6 > -0.8$. Statement D is correct: $\frac{1}{5} = 0.2 < \frac{2}{5} = 0.4$. Statement A is false: $-\frac{3}{4} = -0.75 < -0.5$, so $-\frac{3}{4}$ is actually less than $-\frac{1}{2}$. Statement C is false: $-2.1 < -1.9$ (more negative is smaller). Statement E is false: $-1.5 < -1$.
- 21) **The correct answer is $(5, 1)$.** **(6.MGSR.3.2)** Translate right: add 3 to the x -coordinate: $2 + 3 = 5$. Translate down: subtract 2 from the y -coordinate: $3 - 2 = 1$. So $E' = (5, 1)$.
- 22) **Choice A is correct.** **(6.PAFR.2.6)** 25% of 180 is $0.25 \times 180 = 45$ customers.
- 23) **Choice A is correct.** **(6.PAFR.1.1)** 3rd graders read approximately 4.8 books; kindergarteners read approximately 2.5 books. The difference is about $4.8 - 2.5 = 2.3$ books.
- 24) **Choice D is correct.** **(6.PAFR.2.6)** The whole bar has $3 + 1 = 4$ equal parts. Each part is $20 \div 4 = 5$ units, and wheat is 3 parts: $3 \times 5 = 15$ units.
- 25) **Choice C is correct.** **(6.PAFR.2.6)** Divide distance by gallons: $225 \div 9 = 25$ miles per gallon.



Scan me!
For more practice
& answers

Inventor's Workshop Note

Hi, Math Inventor!

◇ 8 practice tests. 8 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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.



Understand Key Concepts

Reinforce important math ideas 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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ 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.



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS