

GRADE

6

MATH

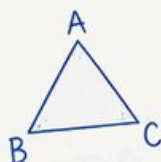
6

South Carolina SC READY

PRACTICE TESTS

Standards-Aligned
Steady Southern
Problem Solving for
Comprehensive
Assessment Program

$$2x + 3 = 11$$



$$7^2 = 49$$

BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!



6 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



6 PRINTED TESTS + 2 ONLINE TESTS

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



PRACTICE

Sharpen skills with targeted practice tests



REVIEW

Understand concepts and strengthen skills



SUCCEED

Build confidence and achieve your best

6 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

6×8 $\frac{5}{6}$

complete South Carolina practice rounds

Six 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!

Eight focused rounds using palmetto-state practice focus

This book gives you six 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 six-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 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	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. 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) A chef prepares pasta for an event. The table shows the relationship between servings and pasta used.

Number of Servings	Pounds of Pasta
4	1
8	2
12	3
20	5

What is the unit rate in pounds of pasta per serving?

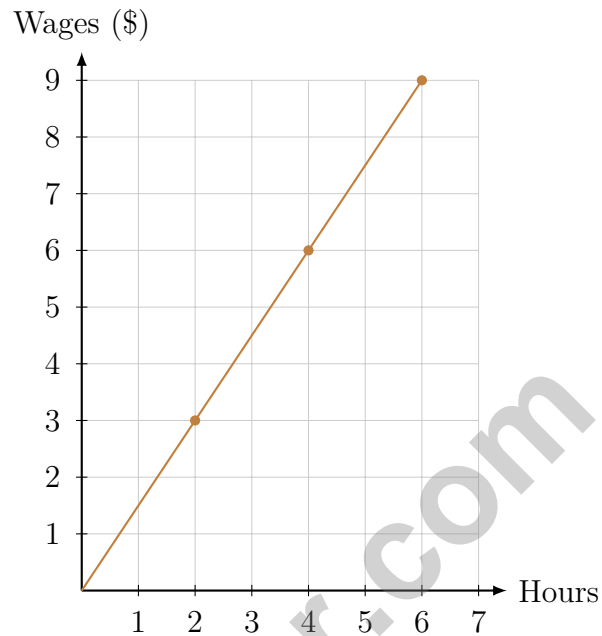
- A. 0.2 lbs per serving
- B. 0.25 lbs per serving
- C. 0.5 lbs per serving
- D. 1 lb per serving
- 2) Solve for x : $\frac{x}{5} = 3$

- A. $x = \frac{3}{5}$
- B. $x = 2$
- C. $x = 8$
- D. $x = 15$



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- 3) The graph shows the relationship between hours worked and wages earned. Which statement is true?



- A. At 2 hours, wages are \$6
- B. The hourly wage is \$2.50
- C. At 4 hours, wages are \$6
- D. The hourly wage is \$2
- 4) Which number is located at the position labeled as -1.2 on a number line?
- A. $-\frac{6}{5}$
- B. $-\frac{5}{4}$
- C. -1
- D. $-\frac{1}{2}$
- 5) A thermometer shows three temperatures: $-5^{\circ}F$, $-8^{\circ}F$, and $2^{\circ}F$. Order them from coldest to warmest.
- A. -5 , -8 , 2
- B. 2 , -5 , -8
- C. -8 , -5 , 2
- D. -8 , 2 , -5



6) The distance between $(x, 7)$ and $(8, 7)$ is 5 units. Both points have the same y -coordinate. What is x ?

A. $x = 3$ or $x = 13$

C. $x = 4$ or $x = 12$

B. $x = 2$ or $x = 14$

D. $x = 1$ or $x = 15$

7) An elevator is at floor 8. It descends 11 floors. At which floor is the elevator now?

Start: Floor 8
 ↓
 Descend 11 floors
 ↓
 End: Floor ?

A. -3

C. 19

B. 3

D. -19

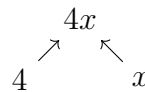
8) A mountain climber is at 3,200 meters. She climbs up 400 meters. What is her new elevation?

A. 2,800 meters

C. 3,800 meters

B. 3,000 meters

D. 3,600 meters



9) Product

This expression tree represents which phrase?

A. The sum of 4 and x

C. The quotient of 4 and x

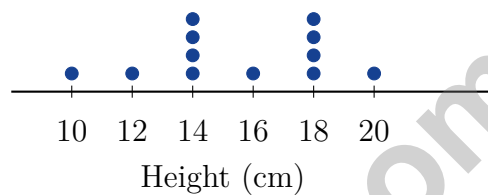
B. The product of 4 and x

D. 4 divided by x



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- 1) A taxi charges \$2 per mile traveled. If m is the number of miles and c is the total cost in dollars, which equation represents this proportional relationship?
- A. $c = 2m$ C. $m = 2c$
 B. $c = 2m + 1$ D. $c = m + 2$
- 2) A dot plot displays measurements of plant heights. If the dot plot shows a bimodal distribution, this means:



- A. There is one peak in the distribution
- B. The data is skewed to one side
- C. All data values are the same
- D. There are two distinct peaks in the distribution
- 3) A sample of 6 salaries (in thousands): $\{30, 35, 40, 42, 45, 90\}$. How does the outlier affect statistics?
- A. Mean and median are equally affected.
- B. Neither is affected by outliers.
- C. The median is pulled higher; the mean is less affected.
- D. The mean is pulled higher; the median is less affected.



4) The probability that a student passes a test is $\frac{4}{5}$. What is the probability that the student fails the test?

A. $\frac{1}{5}$

B. $\frac{2}{5}$

C. $\frac{3}{5}$

D. $\frac{4}{5}$

5) A stem-and-leaf plot shows daily temperatures (in °F) recorded during winter:

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

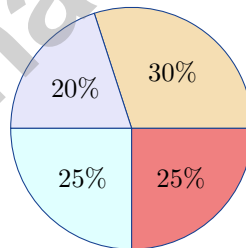
How many temperatures are recorded?

A. 7

B. 8

C. 10

D. 11



6)

What is the central angle for the 20% section in this circle graph?

A. 54°

B. 90°

C. 72°

D. 108°



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1) Evaluate: $2\frac{1}{4} \div 1\frac{1}{2}$

- A. $\frac{3}{4}$
 B. $1\frac{1}{2}$

- C. $\frac{9}{8}$
 D. $2\frac{3}{4}$

2)

Miles	50	100	150
Hours	1	2	3

Which rate does this table represent?

- A. 30 miles per hour
 B. 50 miles per hour

- C. 100 miles per hour
 D. 150 miles per hour

3) An appliance store has two refrigerators on sale. Model A costs \$480 for a 20-cubic-foot unit. Model B costs \$600 for a 30-cubic-foot unit. Which has the better price per cubic foot?

- A. Model A at \$24/cu ft
 B. Model A at \$32/cu ft

- C. Model B at \$20/cu ft
 D. Model B at \$21/cu ft

4) Solve: $\frac{8}{12} = \frac{x}{30}$.

- A. 18
 B. 20

- C. 22
 D. 25

5) What is $7,328 \div 32$?

- A. 229
 B. 225

- C. 226
 D. 230



6) In the expression $v + 15$, the variable v represents the cost of a video game before tax. What does $v + 15$ represent?

- A. The cost of the game before tax D. The difference between game and tax
- B. The tax on the game
- C. The cost of the game plus \$15

7) A spinner is divided into 5 equal sections. The probability of spinning a particular color is $\frac{1}{5}$ or 20%. If the spinner is spun 100 times, about how many times would you expect to land on that color?

8) Which pair of statements both describe the same ratio?

Statement X: The ratio of first part to second part is 6 : 4.

Statement Y: For every 3 units of the first part there are 2 units of the second part.

- A. Yes, they describe the same ratio. C. They cannot be compared.
- B. No, they describe different ratios. D. Only Statement X is a valid ratio.



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& 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.



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South Carolina Practice Test Answers and Explanations

Review the six 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.PAFR.2.5) From any row: $1 \div 4 = 0.25$ lbs per serving. Check: $2 \div 8 = 0.25$. All rows confirm this.
- 2) **Choice D is correct.** (6.PAFR.2.9) Multiply both sides by 5: $x = 3 \times 5 = 15$.
- 3) **Choice C is correct.** (6.PAFR.1.1) The graph includes the point (4, 6), so at 4 hours the wages are \$6. The slope is $\frac{6-3}{4-2} = \frac{3}{2} = 1.5$, so the hourly wage is \$1.50, not \$2.50 or \$2.
- 4) **Choice A is correct.** (6.PAFR.3.1) $-1.2 = -\frac{12}{10} = -\frac{6}{5}$.
- 5) **Choice C is correct.** (6.PAFR.3.1) From coldest to warmest: $-8 < -5 < 2$.
- 6) **Choice A is correct.** (6.MGSR.3.2) Since $|x - 8| = 5$, then $x = 8 - 5 = 3$ or $x = 8 + 5 = 13$.
- 7) **Choice A is correct.** (6.PAFR.3.5) Starting floor: 8. Descending 11 floors: $8 + (-11) = -3$.
- 8) **Choice D is correct.** (6.NR.2.3) Climbing up means adding elevation: $3,200 + 400 = 3,600$ meters.
- 9) **Choice B is correct.** (6.PAFR.2.3) The tree shows 4 and x combining via multiplication into $4x$. This represents the product of 4 and x .
- 10) **Choice A is correct.** (6.PAFR.2.1) The terms with variables are $9c$, $3d$, and $5e$. The term 7 is a constant with no variable.
- 11) **Choice B is correct.** (6.PAFR.2.3) Substitute $x = 2$: $3(2)^2 = 3(4) = 12$.
- 12) **Choice C is correct.** (6.PAFR.3.4) GCF of 20 and 8 is 4. Check: $4(5x - 2) = 20x - 8$. ✓ A, B, D don't use the greatest common factor.
- 13) **The correct answer is 23.** (6.PAFR.2.5) Substitute $n = 15$: $2(15) - 7 = 30 - 7 = 23$.
- 14) **Choice A is correct.** (6.PAFR.3.1) "Less than \$50" means strictly below 50: $d < 50$.
- 15) **The correct answer is 100.** (6.MGSR.1.1) $A = \frac{1}{2} \times 25 \times 8 = 100 \text{ ft}^2$.
- 16) **Choice D is correct.** (6.PAFR.3.1) A closed circle at 1 with arrow pointing left indicates the value 1 is included and all numbers less than 1 are solutions, so $x \leq 1$.
- 17) **Choice C is correct.** (6.MGSR.1.5) $V = \frac{8}{3} \times 2.5 \times 6 = \frac{8}{3} \times 15 = 40 \text{ in}^3$.
- 18) **Choice D is correct.** (6.MGSR.1.4) Side length: $8 - 2 = 6$ units. Area of square = $6^2 = 36$ square units.
- 19) **The correct answer is Both $|-13| = 13$ and $|13| = 13$ equal 13.** (6.PAFR.3.1) A: $|-13| = 13$ ✓. C: $|13| = 13$ ✓. B: opposite of 13 is -13 . D: $-|13| = -(13) = -13$. E: $|-13| + |13| = 13 + 13 = 26$. So only A and C equal 13.
- 20) **Choice A is correct.** (6.MGSR.1.3) A valid net for a cube has exactly 6 square faces arranged so that when folded, they form a cube without overlap. A cross pattern and other valid arrangements work; a line of only 4 squares cannot fold into a cube.
- 21) **Choice D is correct.** (6.MGSR.1.4) The population is the entire group being studied. The 12 players are a sample from the full population of all basketball players in the league.
- 22) **Choice B is correct.** (6.DPSR.1.3) With 50 values, a histogram with intervals is cleaner and shows the overall shape better than a dot plot with many dots.
- 23) **Choice B is correct.** (6.DPSR.1.2) With 6 values, median is the average of the 3rd and 4th: $\frac{17 + 19}{2} = 18$.
- 24) **The correct answer is 2.** (6.MGSR.1.4) Using $A = \frac{1}{2}(b_1 + b_2) \times h$: $80 = \frac{1}{2}(14 + b_2) \times 10 = 5(14 + b_2)$. So $16 = 14 + b_2$, giving $b_2 = 2$ ft.
- 25) **Choice D is correct.** (6.DPSR.1.4) The median is 20. Excluding the median, the lower half is 12, 15, 18, so $Q1 = 15$. The upper half is 25, 28, 32, so $Q3 = 28$. The IQR is $28 - 15 = 13$.



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Hi, Math Athlete!

◇ 6 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 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 6 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.

6
PRINTED
TESTS

+
2
ONLINE
TESTS

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence

★ BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!

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.



6 FULL-LENGTH
PRINTED TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS