10 South Carolina SC READY PRACTICE TESTS

GRADE 6 MATH

Standards-Aligned Review
Mixed Practice & Answer Key

10 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

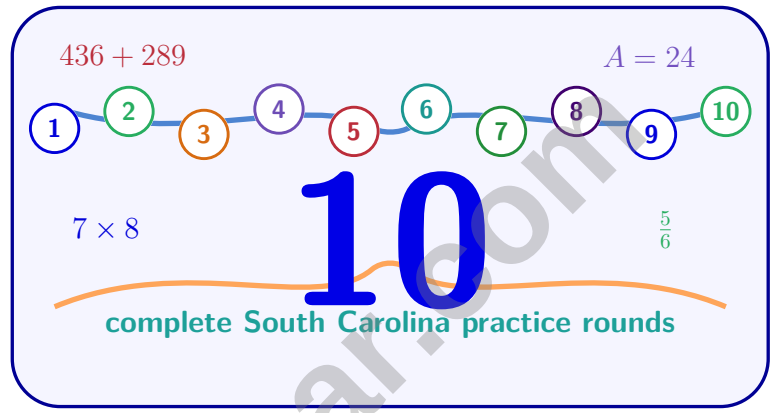
10 PRINTED TESTS + 2 ONLINE TESTS

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

PRACTICE • REVIEW • SUCCEED

10 South Carolina SC READY Grade 6 Math Practice Tests

Standards-Aligned Rooted, Confident Reasoning for South Carolina College and Career Ready Assessments



Ten complete 40-question Grade 6 practice rounds for SC READY, with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

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Jay Daie and Reza Nazari

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Welcome, South Carolina Math Explorer!

Ten steady rounds on a Palmetto State practice path

This book gives you ten full Grade 6 practice tests for SC READY. Each round uses coastal plains, palmetto shade, and steady review 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

Plant the first step firmly, then build the solution. I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

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Read Plan Check

How to Use This Book

A ten-session routine for rooted, confident reasoning

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Work in a quiet place and answer all 40 questions.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

South Carolina review rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.

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What Is Inside?

Ten SC READY tests, 400 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Warm-up 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	Stamina rounds for mixed review, neat work, and flexible strategy choices.
Test 10	Final South Carolina round to show growth across the whole book.
Answer Pages	Compact keys and explanations that show why each answer works.

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The tests are mixed on purpose. Rooted, confident reasoning means recognizing the skill even when the next question changes topic.

Table of Contents

★ Practice Test 1 ____ 13
★ Practice Test 2 ____ 28
★ Practice Test 3 ____ 43
★ Practice Test 4 ____ 59
★ Practice Test 5 ____ 74
★ Practice Test 6 ____ 90
★ Practice Test 7 ____ 107
★ Practice Test 8 ____ 122
★ Practice Test 9 ____ 137
★ Practice Test 10 ____ 152
Practice Test Answer Keys ____ 169
Practice Test Answers and Explanations ____ 175

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1) A data set has values: $5, 7, 7, 7, 9, 9, 12, 12, 12, 12, 15$. What is the mode?

☐ A. 5
☐ B. 9
☐ C. 7
☐ D. 12

2) Write $\frac{4}{5}$ as a decimal and then as a percent.

☐ A. 0.45 and 45%
☐ B. 1.25 and 125%
☐ C. 0.04 and 4%
☐ D. 0.8 and 80%

3) A student receives a monthly allowance of \$360. She allocates: 40% to savings, 35% to entertainment, 15% to gifts, and the remainder to snacks. How much does she spend on snacks?

☐ A. \$18
☐ B. \$36
☐ C. \$54
☐ D. \$126

4) An architect is designing a house. On the blueprint, the house is drawn using a scale of 1 inch = 4 feet. The actual house will be 32 feet long. How long should the house be drawn on the blueprint?

☐ A. 4 inches
☐ B. 8 inches
☐ C. 12 inches
☐ D. 16 inches

5) A number line problem: If $\frac{1}{4}$ is one jump length, how many jump lengths make $\frac{3}{8}$?

☐ A. $\frac{3}{2}$ jump lengths
☐ B. $\frac{3}{32}$ jump length
☐ C. $1\frac{1}{3}$ jump lengths
☐ D. $2\frac{2}{3}$ jump lengths

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6) A rectangle has vertices at $(1, 1)$, $(10, 1)$, $(10, 4)$, and $(1, 4)$. What is the perimeter of this rectangle?

7) Which set of phrases describes equivalent ratios in the same order?

- ☐ A. "For every 2 cats there are 5 dogs" and "The ratio is 5 : 2"
- ☐ B. "For every 3 apples there are 7 oranges" and "The ratio is 3 : 7"
- ☐ C. "For every 4 red cars there are 6 blue cars" and "The ratio is 3 : 2"
- ☐ D. "For every 5 boys there are 8 girls" and "The ratio is 8 : 5"

8) A coach records vertical jump heights (in inches) for basketball players:

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

How many players jumped at least 24 inches?

- ☐ A. 3
- ☐ B. 5
- ☐ C. 6
- ☐ D. 7

9) Find the mean of the data set: $7, 14, 21, 28$.

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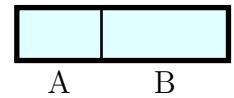
10)



The bar shows two sections. Section A is $\frac{2}{5}$ of the bar and section B is $\frac{3}{5}$. What is the ratio of A to B?

- ☐ A. 3 : 2
- ☐ B. 3 : 5
- ☐ C. 5 : 3
- ☐ D. 2 : 3

11) Find the mean absolute deviation of $70, 75, 80, 82, 85, 88, 90, 92, 95$. Round to the nearest hundredth.

12) A student reads 45 pages in $\frac{3}{4}$ hour. What is the reading rate in pages per hour?

- ☐ A. 34 pages per hour
- ☐ B. 45 pages per hour
- ☐ C. 60 pages per hour
- ☐ D. 68 pages per hour

13) A printing company prints at two different speeds. Line A prints 240 pages in 4 minutes. Line B prints 300 pages in 6 minutes. Which line prints faster?

- ☐ A. Line A at 50 pages/min
- ☐ B. Line A at 60 pages/min
- ☐ C. Line B at 50 pages/min
- ☐ D. Line B at 60 pages/min

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1) Which student made an error in evaluating $2x^2$ when $x = 3$?

☐ A. Mai: $2(3)^2 = 2(9) = 18$ ✓
☐ B. Jamal: $2(3^2) = 2(9) = 18$ ✓
☐ C. Lexi: $(2 \times 3)^2 = 6^2 = 36$ ✗
☐ D. All evaluated correctly.

2) The table shows the relationship between minutes of exercise and calories burned.

Minutes	10	20	30	40
Calories Burned	80	160	240	320

Which equation matches this table?

☐ A. $c = 8m$
☐ B. $c = 16m$
☐ C. $m = 8c$
☐ D. $c = m + 70$

3) If a circle has an area of approximately 314 cm^2 and $\pi \approx 3.14$, what is the diameter?

☐ A. 5 cm
☐ B. 10 cm
☐ C. 20 cm
☐ D. 40 cm

4) A restaurant manager asks customers: "How much time did you spend eating lunch today?"
Here are responses (in minutes):

25	45	30	50	35

What does this data show about the question?

☐ A. The question is non-statistical.
☐ B. Everyone spends the same time eating lunch.
☐ C. The question is statistical because responses vary.
☐ D. Lunch time is always 30 minutes.

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5) A large IQR indicates what about a data set?

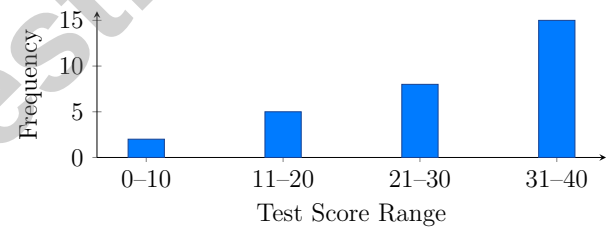
- ☐ A. The data is very tightly clustered
- ☐ B. There are no outliers present
- ☐ C. All values are identical
- ☐ D. The middle 50% of the data is spread out

6) After simplifying $4x + 7 + 2x - 3$, what is the coefficient of x?

7) Find the mean of $3, 7, 8$.

- ☐ A. 5
- ☐ B. 6
- ☐ C. 7
- ☐ D. 18

8) A histogram shows the test scores for a class of 30 students, grouped into ranges. The bars show: 0–10 has height 2, 11–20 has height 5, 21–30 has height 8, and 31–40 has height 15. How many students scored between 21 and 30?



- ☐ A. 5 students
- ☐ B. 8 students
- ☐ C. 15 students
- ☐ D. 10 students

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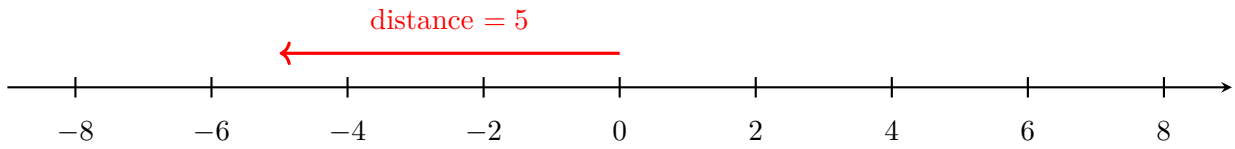
1)



The opposite of the opposite of −5 is:

- ☐ A. 5
- ☐ B. 10
- ☐ C. 0
- ☐ D. −5

2) A restaurant bill comes to \$45. The customer wants to leave a 20% tip. How much is the tip?

- ☐ A. \$4.50
- ☐ B. \$9.00
- ☐ C. \$18.00
- ☐ D. \$27.00

3) The table below shows a proportional relationship between distance and time. What is the missing value?

Time (hours)	2	4	6
Distance (miles)	90	180	?

- ☐ A. 240
- ☐ B. 260
- ☐ C. 270
- ☐ D. 300

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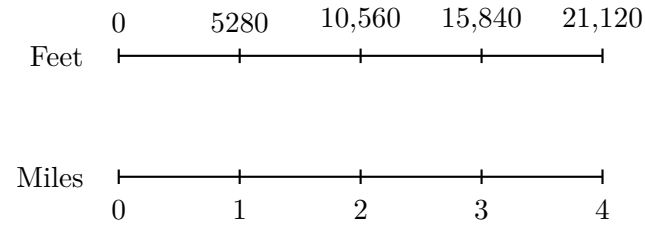
4)



Using the double number line, how many feet are in 3 miles?

- ☐ A. 5280 feet
- ☐ B. 10560 feet
- ☐ C. 15840 feet
- ☐ D. 21120 feet

5) A family has a monthly income of \$3600. They allocate: 35% to rent, 15% to food, 10% to utilities. How much do they have remaining for other expenses?

- ☐ A. \$1080
- ☐ B. \$1260
- ☐ C. \$1440
- ☐ D. \$1800

6) Two events are scheduled at a recreation center. Event A happens every 15 minutes and Event B happens every 25 minutes. If both start at noon, at what time will they start together again?

- ☐ A. 12 : 15 PM
- ☐ B. 12 : 25 PM
- ☐ C. 1 : 15 PM
- ☐ D. 1 : 45 PM

7) Expand $7(4+6)$.

- ☐ A. $28+42$
- ☐ B. $28+6$
- ☐ C. $4+42$
- ☐ D. 11×7

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South Carolina SC READY Practice Test Answer Keys

How to use this section with a Grade 6 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice D is correct.** 6.PAFR.2.7 Count frequencies: 5 appears 1 time, 7 appears 3 times, 9 appears 2 times, 12 appears 4 times, 15 appears 1 time. The mode is the most frequent value, 12.

2) **Choice D is correct.** 6.MGSR.3.2 $\frac{4}{5} = \frac{80}{100} = 0.8 = 80\%$.

3) **Choice B is correct.** 6.MGSR.1.3 Remainder: $100\% - 40\% - 35\% - 15\% = 10\%$ of $\$360 = 0.10 \times 360 = \$36$.

4) **Choice B is correct.** 6.PAFR.3.1 Divide by the scale: $32 \div 4 = 8$ inches.

5) **Choice A is correct.** 6.PAFR.2.3 $\frac{3}{8} \div \frac{1}{4} = \frac{3}{8} \times 4 = \frac{12}{8} = \frac{3}{2}$. So $\frac{3}{8}$ is $1\frac{1}{2}$ jump lengths of size $\frac{1}{4}$.

6) **The correct answer is 26.** 6.PAFR.3.1 Length $= 10 - 1 = 9$ units; width $= 4 - 1 = 3$ units. Perimeter $= 2(9+3) = 2(12) = 26$ units.

7) **Choice B is correct.** 6.MGSR.1.4 Choice B keeps the same order: apples first, oranges second. The phrase and the ratio both say $3:7$.

8) **Choice D is correct.** 6.MGSR.1.1 Values at least 24 are $24, 26, 28, 29, 30, 32, 35$, for a total of 7 players.

9) **The correct answer is 17.5.** 6.DPSR.1.2 Mean $= \frac{7+14+21+28}{4} = \frac{70}{4} = 17.5$.

10) **Choice D is correct.** 6.DPSR.1.2 Both sections are measured in fifths, so compare the numerators. A has 2 fifths and B has 3 fifths, giving a ratio of $2:3$.

11) **The correct answer is 6.54.** 6.PAFR.1.1 The mean is $757/9 \approx 84.11$. The sum of absolute deviations from the mean is approximately 59, so MAD $\approx 59/9 \approx 6.54$.

12) **Choice C is correct.** 6.DPSR.2.2 Divide pages by time: $45 \div \frac{3}{4} = 45 \times \frac{4}{3} = \frac{180}{3} = 60$ pages per hour.

13) **Choice B is correct.** 6.PAFR.2.6 Line A: $240 \div 4 = 60$ pages/min. Line B: $300 \div 6 = 50$ pages/min. Line A is faster at 60 pages per minute.

14) **Choice D is correct.** 6.PAFR.2.6 The ratio is $4:5$. When roses are 16 (multiply by 4), tulips are $5 \times 4 = 20$.

15) **The correct answer is 19.** 6.MGSR.1.4 Range $=$ max $-$ min $= 22 - 3 = 19$.

16) **Choice C is correct.** 6.PAFR.2.3 The ratios are: $\frac{65}{1} = 65$, $\frac{75}{2} = 37.5$, $\frac{85}{3} \approx 28.3$. The ratios are different, so this is not a proportional relationship. The line does not pass through the origin $(0,0)$, which is required for proportionality.

17) **Choice D is correct.** 6.PAFR.2.3 Increase is $\$44,000 - \$40,000 = \$4,000$. Percent increase is $\frac{4000}{40000} = 0.10 = 10\%$.

18) **Choice C is correct.** 6.PAFR.2.1 Time $=$ Distance $\div$ Rate $= 60 \div 15 = 4$ hours.

19) **The correct answer is Statements A, B, D, and E are correct; C is false..** 6.PAFR.3.4 A: $2.5 \times 2 \times 4 = 20$ m^3 ✓. B: $16 \times 3 = 48$ in^3 ✓. C: $3 \times 4 \times 5 = 60$ ft^3 (not 70) ×. D: $6 \times 2 \times 3 = 36$ cm^3 ✓. E: $10 \times 5 = 50$ m^3 ✓.

20) **Choice C is correct.** 6.PAFR.2.9 Multiply: $80 \times 3 = 240$ feet.

21) **Choice C is correct.** 6.PAFR.1.1 At \$50 per month: $\frac{\$500}{\$50} = 10$ months.

22) **Choice C is correct.** 6.PAFR.2.7 A constant increase alone is not enough, but this table also passes through $(0,0)$ and has a constant ratio: $c/a = 3/2 = 6/4 = 9/6 = 1.5$. Those facts confirm proportionality.

23) **Choice A is correct.** 6.MGSR.1.5 $4{,}725 \div 15 = 315$. Each classroom receives 315 pencils.

24) **Choice A is correct.** 6.MGSR.3.2 Divide: $2.4 \div 4 = 0.6$ meters. Each piece is 0.6 meters long.

25) **Choice A is correct.** 6.DPSR.1.2 When we divide 20 by each number: $20 \div 1 = 20$, $20 \div 2 = 10$, $20 \div 4 = 5$, $20 \div 5 = 4$, $20 \div 10 = 2$, $20 \div 20 = 1$. All these are factors.

26) **Choice A is correct.** 6.PAFR.2.6 The GCF of 12 and 20 is 4. So $12 + 20 = 4(3+5)$. Choice B uses GCF 2, which is correct but not the greatest common factor. Choice A uses the greatest common factor.

27) **Choice D is correct.** 6.DPSR.1.2 The opposite of a number is the same distance from zero but on the other side. The opposite of -9 is 9.

28) **Choice D is correct.** 6.DPSR.1.3 Using midpoint formula: $\frac{-2+x}{2} = -0.5 \Rightarrow -2 + x = -1 \Rightarrow x = 1$.

29) **Choice C is correct.** 6.DPSR.1.4 Quadrant III is in the lower left. The point closest to this boundary from Quadrant IV would have a small x-coordinate. The point $(1, -5)$ has the smallest x-value among the Quadrant IV points listed.

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Hi, Math Champion!

◇ You trained hard! 10 full practice tests is real practice. Your math game is way better now than when you started. ◇

⋆ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works! ⋆

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

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PRACTICE MORE. ACHIEVE MORE. SUCCEED!

This **Grade 6 Math Practice Tests** book is designed to help students build strong math skills, deepen their understanding of key concepts, and gain the confidence they need to succeed on any test.

With 10 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, strengthen 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

CONFIDENCE TODAY. SUCCESS 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.

Deepen 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.

10 PRINTED PRACTICE TESTS | **2 ONLINE PRACTICE TESTS** | **DETAILED ANSWER EXPLANATIONS**