

# 5 Full-Length South Carolina SC READY Grade 6 Math Practice Tests

*Extra Practice for Test Day Success*

**Dr. A. Nazari**

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EXPLORER'S JOURNEY

# 5 Practice Tests to Map Your Math Skills!



Welcome, Math Explorer! 

This book is your map through **5 full practice tests**, each one a new trail through every Grade 6 topic — from ratios and integers to geometry and statistics.

Discover what you already know!

Explore the topics that need more work!

Chart your path to test-day confidence!

Every explorer needs a plan. Let's start mapping yours!



“ Five tests means five chances to discover something new about your math skills. Enjoy the journey! ”

# Your Exploration Guide

*Five trails to discover, five weeks to grow*

## What's Inside This Book

- **5 Full-Length Practice Tests** — each covers all Grade 6 topics: ratios, integers, expressions, geometry, and statistics.
- **Detailed Answer Explanations** — understand the why behind every answer, not just the what.
- **Formula Reference Sheet** — your trusty map of key formulas.
- **Explorer's Log** — chart your scores and track discoveries!

## Your 5-Week Exploration Schedule

One test per week keeps the journey manageable:

**Trail 1:** Take Test 1 untimed. Explore the terrain and note what you find.

**Trail 2:** Review weak spots. Take Test 2 with a gentle timer (75 min).

**Trail 3:** Test 3 timed (60 min). Compare with Test 1 — see the progress!

**Trail 4:** Deep-focus on remaining tricky topics. Test 4 timed.

**Trail 5:** Full test conditions. Your final exploration — celebrate the finish!

## Multiple Choice

Choose the **best answer** from A, B, C, or D.

 **Explorer's tip:** Read every option before deciding. The correct answer sometimes hides in the last choice!

## Open Response

**Show your work** and write your answer clearly.

 **Explorer's tip:** Think of your solution as a trail map — show every step so someone else could follow your path!

**“ After Each Trail ”**

Check the Answer Key and read every explanation — especially for questions you missed. Write the tricky topics in your Explorer’s Log. If you need a deeper dive, grab our **Grade 6 Math Study Guide!**

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# The Explorer's Toolkit

Essential strategies for navigating every test

## Pack Your Gear (Before the Test)

- ✓ Clear your workspace — remove distractions.
- ✓ Gather pencils, eraser, scratch paper.
- ✓ Take 3 deep breaths.
- ✓ Set your goal: "I'll read carefully and show my work."

## Navigate the Trail (During the Test)

1. **Scout first.** Flip through the test to see what's ahead.
2. **Start with what you know.** Answer confident questions first.
3. **Mark the unknowns.** Put a  by tricky ones and return later.
4. **Show every step.** Your solution path matters as much as the answer.
5. **Check the map.** Does your answer make sense in context?

## Navigation Tips by Topic

- **Ratios:** Set up a proportion and cross-multiply
- **Integers:** Use a number line to check signs
- **Expressions:** Follow PEMDAS step by step
- **Equations:** Inverse operations to isolate  $x$
- **Geometry:** Draw and label diagrams
- **Statistics:** Order data before finding median

## Trail Hazards

- Confusing ratio 3:5 with  $\frac{3}{5}$
- Wrong signs when adding integers
- Forgetting exponents in PEMDAS
- Mixing up area formulas
- Reading the wrong axis
- Finding mean instead of **median**



**Explorer's Debrief:** After each test, go through the answer key carefully. For every wrong answer, ask: did I make a careless mistake, or do I need to study this topic more? Write your findings in the Explorer's Log. That's how real explorers improve — they learn from every expedition!

# Pack Your Explorer's Kit

Gather everything you need before each expedition

## Your Expedition Gear

- ✓ **Two sharpened pencils** *so you never have to stop mid-trail*
- ✓ **A good eraser** *every explorer course-corrects!*
- ✓ **Scratch paper** *for drawing diagrams and working out steps*
- ✓ **A quiet workspace** *your base camp for concentration*
- ✓ **A timer** *start using around Trail 3*
- ✓ **Curiosity and confidence!** *the explorer's greatest tools*

## Allowed on Real Tests

- ✓ Pencil and eraser
- ✓ Scratch paper (provided)
- ✓ Ruler (if specified)
- ✓ Reference sheets (in this book)

## Not Allowed

- ✗ Calculator
- ✗ Phone or tablet
- ✗ Textbooks or notes
- ✗ Help from others

## For Parents & Teachers

- Spread the 5 tests across **5 weeks** for best results. This gives time to review and study between expeditions.
- Test 1 should be untimed to establish a baseline.
- After each test, review the Answer Key together. Focus on **reasoning**, not just scores.
- Pair this book with our **Grade 6 Math Study Guide** for topics that need extra attention.
- Celebrate progress — every improvement, no matter how small, is a discovery worth noting!

# Formula Reference Sheet

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## Area Formulas

**Rectangle**  $A = l \times w$

**Parallelogram**  $A = b \times h$

**Triangle**  $A = \frac{1}{2} \times b \times h$

**Trapezoid**  $A = \frac{1}{2}(b_1 + b_2) \times h$

## Volume

**Rectangular**  $V = l \times w \times h$

**Prism**

## Surface Area

Find the area of each face, then add them all up.

**Rectangular Prism:**

$$SA = 2lw + 2lh + 2wh$$

## Order of Operations

**P** Parentheses first

**E** Exponents

**M/D** Multiply & Divide (left to right)

**A/S** Add & Subtract (left to right)

## Ratios & Percents

**Ratio:**  $a : b$  or  $\frac{a}{b}$

**Unit rate:** amount per 1 unit

**Percent:** a ratio out of 100

$$\text{Part} = \text{Percent} \times \text{Whole}$$

## Integers & Absolute Value

**Integers:**

$\dots, -3, -2, -1, 0, 1, 2, 3, \dots$

$$|-5| = 5 \quad |5| = 5$$

**Absolute value** = distance from 0

## Expressions & Equations

**Exponent:**  $3^4 = 3 \times 3 \times 3 \times 3 = 81$

**Variable:** a letter that stands for a number

**Equation:** two expressions joined by =

**Inequality:** uses  $<$ ,  $>$ ,  $\leq$ ,  $\geq$

## Coordinate Plane

**Ordered pair:**  $(x, y)$

**x-axis:** horizontal    **y-axis:** vertical

**Origin:**  $(0, 0)$

**Four quadrants** (I, II, III, IV)

## Statistics

**Mean:** sum of values  $\div$  count

**Median:** middle value (sorted)

**Range:** max – min

# My Explorer's Log

Record each expedition's results and discoveries

Explorer's Name: \_\_\_\_\_

Trail	 Date	 Score	 Confidence
1	_____	____ / ____	
2	_____	____ / ____	
3	_____	____ / ____	
4	_____	____ / ____	
5	_____	____ / ____	

PREVIEW

 *My Discovery Journal*

*Topics I explored with confidence:*

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*Uncharted territory (topics I need to study more):*

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*My biggest improvement from Trail 1 → Trail 5:*

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*One new strategy I discovered along the way:*

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*One strategy that helped me the most:*

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*Let's learn and have fun!*

PREVIEW



PRACTICE TEST

1

## Practice Test 1

 30 Questions

### Before You Start

- ✓ *Read each question carefully before choosing your answer.*
- ✓ *Show your work on scratch paper when you need to.*
- ✓ *Skip hard questions and come back to them later.*
- ✓ *Check your answers when you're done.*
- ✓ *Take your time — there's no rush!*

★ *You've Got This!* ★

*Do your best and show what you know!*



1. A recipe calls for 4 cups of water **to** 1 cup of rice. If you use 3 cups of rice, how many cups of water do you need?

- (A) 7  
(B) 8  
(C) 12  
(D) 4

2. Ana types 225 words in 5 minutes. Ben types 180 words in 4 minutes. Who types faster?

- (A) Ana, at 45 words per minute  
(B) Ben, at 45 words per minute  
(C) They type at the same speed.  
(D) Ben, at 44 words per minute

3. A recipe uses 4 eggs for every 6 cups of flour. How many eggs are needed for 18 cups of flour?

- (A) 6  
(B) 10  
(C) 12  
(D) 8

4. A lemonade stand sells cups at \$3 each. Which graph shows the correct relationship?

- (A) A line through (1, 3) and (2, 5)  
(B) A line through (1, 3) and (2, 6)  
(C) A line through (1, 3) and (3, 6)  
(D) A line through (3, 1) and (6, 2)

5. A car's gas tank holds 15 gallons. It uses 1 gallon every 28 miles. How far can the car go on a full tank?

- (A) 420 miles  
(B) 280 miles  
(C) 350 miles  
(D) 450 miles



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6. A sprinter runs at 9 meters per second. What is her speed in kilometers per hour? (1 km = 1,000 m, 1 hour = 3,600 seconds)

Your Answer:

7. A student solved the problem below using "Keep, Change, Flip." Look at the student's work.

**Problem:**  $\frac{4}{5} \div \frac{2}{3}$

**Step 1:** Keep  $\frac{4}{5}$  Change  $\div$  to  $\times$

**Step 2:** Flip  $\frac{4}{5}$  to get  $\frac{5}{4}$

**Step 3:**  $\frac{5}{4} \times \frac{2}{3} = \frac{10}{12} = \frac{5}{6}$

What error did the student make?

- (A) The student forgot to change  $\div$  to  $\times$       (B) The student made a multiplication error in Step 3
- (C) The student forgot to simplify      (D) The student flipped the wrong fraction

8. Compute  $9,072 \div 42$ .

Your Answer:

9. What is  $|-8|$ ?

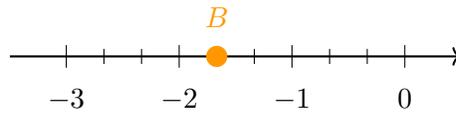
- (A)  $-8$       (B)  $0$
- (C)  $8$       (D)  $-(-8)$



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10. The number line below is divided into thirds between each pair of consecutive integers. Point  $B$  is marked on the number line.



What value does Point  $B$  represent?

(A)  $-\frac{2}{3}$

(B)  $-\frac{4}{3}$

(C)  $-\frac{5}{3}$

(D)  $-\frac{1}{3}$

11. What is  $3 - 8$ ?

(A) 5

(B) 11

(C) -5

(D) -11



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12. Study the pattern table below.

<i>Expression</i>	<i>Product</i>
$(-3) \times 3$	-9
$(-3) \times 2$	-6
$(-3) \times 1$	-3
$(-3) \times 0$	0
$(-3) \times (-1)$	?
$(-3) \times (-2)$	?
$(-3) \times (-3)$	?

**Part A:** Complete the three missing products by continuing the pattern.

**Part B:** Explain the pattern and how it shows that a negative times a negative is positive.

Your Answer:

13. A student evaluated  $2 + 5 \times 3^2$  step by step. Look at the work shown below. In which step did the student make a mistake?

**Step 1:**  $2 + 5 \times 3^2$

**Step 2:**  $7 \times 3^2$

**Step 3:**  $7 \times 9$

**Step 4:** 63

(A) Step 1

(B) Step 2

(C) Step 3

(D) Step 4



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14. Which expression represents "triple a number  $b$ , then subtract 4"?

(A)  $3(b - 4)$

(B)  $3b - 4$

(C)  $b - 12$

(D)  $4 - 3b$

15. Evaluate  $6x - x^2$  when  $x = 4$ .

(A) 8

(B) 20

(C) -8

(D) 40

16. Simplify:  $6 + 2(x + 4)$

(A)  $2x + 10$

(B)  $8x + 4$

(C)  $2x + 14$

(D)  $16x$

17. A taxi charges \$3 plus \$2 per mile. Write an expression for the cost of a ride that is  $m$  miles long.

Your Answer:

\_\_\_\_\_



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18. The table shows Mario's steps for solving an equation. In which step did he make an error?

**Equation:**  $\frac{n}{5} = 8$

**Step 1:** Multiply both sides by 5

**Step 2:**  $n = 8 + 5$

**Step 3:**  $n = 13$

- (A) No error —  $n = 13$  is correct
- (B) Step 1 — he should have divided both sides by 5
- (C) Step 2 — multiplying by 5 gives  $n = 8 \times 5 = 40$ , not  $8 + 5$
- (D) Step 3 —  $8 + 5 = 13$ , not 14

19. Name three solutions to the inequality  $m \geq 6$ .

Your Answer:



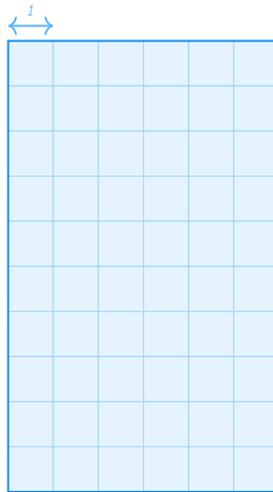
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20. What is the area of a triangle with base 10 cm and height 6 cm?



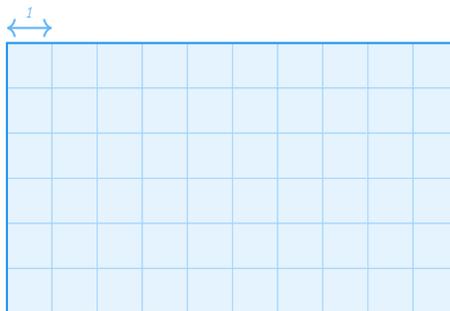
(A)  $60 \text{ cm}^2$

(B)  $30 \text{ cm}^2$

(C)  $16 \text{ cm}^2$

(D)  $32 \text{ cm}^2$

21. What is the area of a trapezoid with bases 6 in and 10 in and height 4 in?



(A)  $32 \text{ in}^2$

(B)  $20 \text{ in}^2$

(C)  $60 \text{ in}^2$

(D)  $40 \text{ in}^2$



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28. A dot plot of students' shoe sizes shows a cluster from size 6 to size 8, with a gap at size 10 and one dot at size 12. What is the dot at size 12?

- (A) A cluster  
(B) A gap  
(C) A peak  
(D) An outlier

29. Data (in order): 10, 15, 20, 25, 30, 35, 40. Find the five-number summary.

Your Answer:

30. The table below shows statistics for two basketball teams this season.

	Team A	Team B
Mean points	72	70
MAD	8	3

Team A scored more on average. But which team would you trust more in a close game? Why?

- (A) Team A, because they score higher on average.  
(B) Team B, because their scores are more predictable (smaller MAD).  
(C) Team A, because a higher MAD means more exciting games.  
(D) Both teams are equally trustworthy.



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★ *End of Practice Test 1* ★

*Great job finishing the test!*

 **My Score**

*I got \_\_\_\_\_ out of 30 questions right.*

*Check your answers in the **Answer Key** at the back of the book.*

 *Review any questions you missed. That's how we learn!*

THANK YOU

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