

5 FULL-LENGTH South Carolina SC READY

GRADE 5 MATH

★ PRACTICE TESTS ★



5 FULL-LENGTH
PRACTICE TESTS



COMPLETE
STANDARDS
REVIEW



SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!

$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$



$$12 \times 3 = 36$$



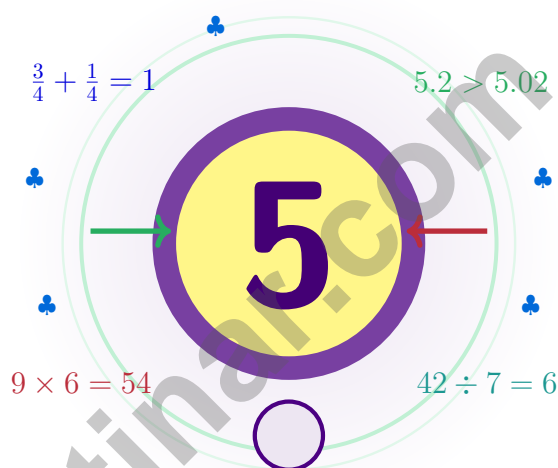
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 South Carolina SC READY Grade 5 Math Practice Tests

Five chances to grow your math mind one careful step at a time



Five full tests, a friendly quick review, smart strategy pages, and student-tested support that turn Grade 5 practice in The Palmetto State into a steady quest of real growth.

Jay Daie and Reza Nazari



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Hello, South Carolina – Five-Checkpoint Adventure

Five chances to grow your math mind one careful step at a time

South Carolina Grade 5: This Quest Is for You

This book is your practice zone, not a place to be perfect. Each of the five tests gives you a chance to notice clues, choose a strategy, check your thinking, and come back stronger for the next round. Math practice grows like a palmetto – tall, flexible, and ready for any breeze.

Some questions will feel easy right away. Some will make you slow down, draw, estimate, or retry. That is excellent news. It means your math brain is doing real work.

Notice

Read closely and spot what the problem is really asking.

Try

Pick a plan and work through it one step at a time.

Level Up

Use every correction like a clue for what to practice next.

A strong quest habit for South Carolina: slow down, write neatly, estimate before you solve, and keep going even when a problem looks tricky at first. That is exactly how confident math students are built.

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Five Checkpoints, One Routine

A simple routine that turns five tests into real growth

Step 1: Power Up

Warm up with the quick review.
Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Take the Checkpoint

Take one full practice test.
Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Decode Mistakes

Check your answers honestly.
Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Bring the Lesson Forward

Study, fix, and retry.
Read the explanation, repair the work, and carry that lesson into the next test.

A Five-Week South Carolina Quest Map

Week	Mission Focus
Week 1	Take Test 1 like a Charleston morning.
Week 2	Take Test 2 and notice one habit that grew steadier.
Week 3	Take Test 3 and lift fractions, decimals, and conversions.
Week 4	Take Test 4 and slow down on multi-step problems.
Week 5	Take Test 5 with calm, careful focus.



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Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

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

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

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1 foot (ft) = 12 inches (in.)

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1) A bottle holds 0.9 liter of water. A box has 6 bottles. Is the total more or less than 6 liters, and what is the total?

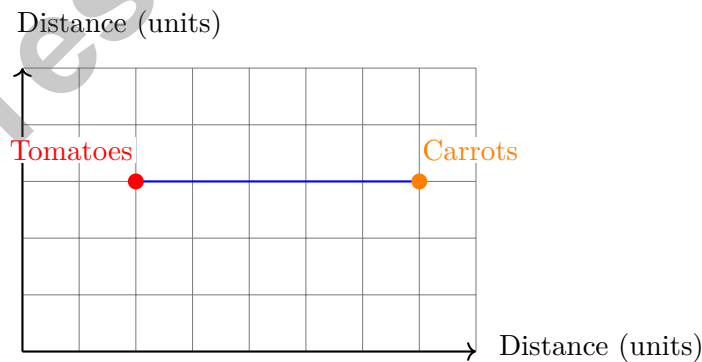
- A. Less than 6 liters; 5.4 liters
- B. More than 6 liters; 5.4 liters
- C. Less than 6 liters; 54 liters
- D. Equal to 6 liters; 6 liters

2) Compare two addition patterns. Pattern Plus-3: starts at 1, adds 3 each time. Pattern Plus-5: starts at 1, adds 5 each time. How much bigger is Plus-5 than Plus-3 at step 5?

Step	Plus-3	Plus-5
1	1	1
2	4	6
3	7	11
4	10	16
5	?	?

- A. 5
- B. 8
- C. 9
- D. 10

3) A garden plot is mapped on a grid where the tomatoes are at (2, 3) and the carrots are at (7, 3). The distance between them is:



- A. 3 units
- B. 5 units
- C. 7 units
- D. 9 units



4) A bar shows one third split into 4 equal parts. Which equation matches the model?

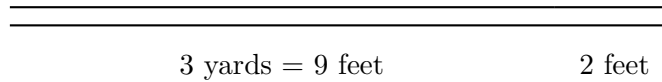
A. $4 \div \frac{1}{3} = ?$

C. $\frac{1}{3} \div 4 = ?$

B. $\frac{1}{3} \times 4 = ?$

D. $4 - \frac{1}{3} = ?$

5) A fence is 3 yards and 2 feet long. How many feet total?



A. 11 feet

C. 12 feet

B. 9 feet

D. 10 feet

6) A gardener has 0.25 kg of seeds in each small packet. If she has 100 packets, how many kilograms of seeds does she have in total? (What is 0.25×100 ?)

A. 2 kg

C. 25 kg

B. 2.5 kg

D. 250 kg

7) How many right angles does a rectangle have?

Record your answer in the space provided.

8) A recipe calls for 1.25 kilograms of sugar to make 20 servings. How much sugar is needed to make 80 servings?

A. 4.75 kg

C. 5.25 kg

B. 5.00 kg

D. 5.50 kg



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1) Evaluate: $6 \times (7 + 3) - 20$

A. 20

C. 40

B. 30

D. 50

2) Compare without calculating: $4 \times (25 + 6)$ $(4 \times 25) + 6$

A. >

C. =

B. <

D. Cannot tell

3) What is $\frac{1}{3} \div 6$?

A. $\frac{1}{18}$

C. $\frac{1}{3}$

B. $\frac{6}{3}$

D. $\frac{1}{9}$

4) If you multiply 0.6 by 10, which place does the digit 6 move to?

A. Ones place

C. Hundredths place

B. Tenths place

D. Thousandths place

5) Write a division equation for: 5 cups of juice poured into $\frac{1}{4}$ -cup servings.

Record your answer in the space provided.

6) If 9×10^3 means $9 \times 1,000$, what is it?

A. 90

C. 9,000

B. 900

D. 90,000



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1) Pattern: $8 \times 5 = 40$; $80 \times 5 = 400$; $800 \times 5 = ?$

A. 400

C. 40,000

B. 4,000

D. 40

2) Pattern T: 4, 8, 12, 16, 20. Pattern U: 2, 4, 6, 8, 10. Which statement relates the matching terms?

U	T
2	4
4	8
6	12
8	16
10	20

A. Pattern T is 2 more than Pattern U

C. Pattern T is 4 more than Pattern U

B. Pattern T is twice Pattern U

D. Pattern T is 2 less than Pattern U

3) A store receipt shows:

Item	Price
Apple juice	\$2.35
Crackers	\$1.64
Total	?

What is the total cost?

A. \$3.89

C. \$4.09

B. \$4.99

D. \$3.99



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1) Which fraction is NOT equivalent to $\frac{2}{4}$?

A. $\frac{1}{2}$

B. $\frac{3}{6}$

C. $\frac{4}{8}$

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

2) A teacher has 3,600 sheets of paper. She gives 100 sheets to each student. How many students are there?

A. 3.6

B. 36

C. 360

D. 36,000

3) A rectangular prism has dimensions 3 by 1 by 2 unit cubes. What is its volume?

Rectangular prism
 $3 \times 1 \times 2$ unit cubes

A. 4 cubic units

B. 12 cubic units

C. 8 cubic units

D. 6 cubic units

4) Which decimal number correctly matches the word form “zero and three hundred twenty-one thousandths”?

A. 0.321

B. 0.021

C. 321

D. 3.21

5) How many inches are in 2 yards?

A. 36 inches

B. 48 inches

C. 60 inches

D. 72 inches



Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(5.NR.1.3)** Since each bottle has less than 1 liter, 6 bottles hold less than 6 liters. The total is $0.9 \times 6 = 5.4$ liters.
- 2) **Choice B is correct.** **(5.MGSR.3.2)** Plus-3 at step 5: $1 + 3(4) = 13$. Plus-5 at step 5: $1 + 5(4) = 21$. Difference: $21 - 13 = 8$.
- 3) **Choice B is correct.** **(5.MGSR.3.2)** Both points have the same y-coordinate (3), so the distance is $7 - 2 = 5$ units east.
- 4) **Choice C is correct.** **(5.PAFR.2.3)** The amount being shared is one third, and it is split into 4 equal parts. So the matching division equation is $\frac{1}{3} \div 4 = ?$.
- 5) **Choice A is correct.** **(5.MGSR.2.1)** 3 yards = $3 \times 3 = 9$ feet. Add 2 feet: $9 + 2 = 11$ feet.
- 6) **Choice C is correct.** **(5.NR.1.4)** $0.25 \times 100 = 25$ (move decimal 2 places right).
- 7) **The correct answer is 4.** **(5.MGSR.1.1)** All four angles of a rectangle are right angles.
- 8) **Choice B is correct.** **(5.PAFR.3.4)** Scale factor: $80 \div 20 = 4$. Sugar needed: $1.25 \times 4 = 5.00$ kilograms.
- 9) **The correct answer is $\frac{1}{12}$.** **(5.MGSR.1.2)** Splitting into 3 rows and 4 columns gives 12 equal parts; the overlapping region is 1 of those parts: $\frac{1}{12}$.
- 10) **The correct answer is 6.** **(5.NR.1.1)** In 4.06, the 6 is in the hundredths place.
- 11) **Choice B is correct.** **(5.MGSR.1.1)** A shape with opposite sides parallel and opposite sides equal is a parallelogram. The figure shown has these properties.
- 12) **Choice B is correct.** **(5.NR.1.4)** $156 \times 10 = 1,560$. The total cost is \$1,560.
- 13) **Choice B is correct.** **(5.DPSR.1.3)** Count X marks above $\frac{3}{8}$ on the plot. There are 2 X marks.
- 14) **Choice B is correct.** **(5.NR.1.3)** Only B is correct. For the nearest tenth, look at the hundredths digit (3). Since $3 < 5$, the tenths stays 2, giving 6.2. A names the wrong place (6.24 has two decimal places, not one). C is wrong because the tenths digit (2) is less than 5, so 6.234 rounds down to 6, not up to 7. D is wrong because the thousandths digit is 4, so the hundredths stays 3, giving 6.23 (not 6.24).
- 15) **Choice B is correct.** **(5.MGSR.1.2)** Base area = $21 \times 8 = 168 \text{ in}^2$. Height = $504 \div 168 = 3$ inches.
- 16) **Choice A is correct.** **(5.MGSR.1.1)** All three angles (30° , 70° , 80°) are less than 90 degrees, making this an acute triangle.
- 17) **Choice D is correct.** **(5.MGSR.1.2)** Find each part first: Prism A is $8 \times 2 \times 6 = 96$ cubic centimeters, and Prism B is $3 \times 3 \times 2 = 18$ cubic centimeters. Because the parts do not overlap, add them: $96 + 18 = 114$ cubic centimeters.
- 18) **Choice C is correct.** **(5.MGSR.1.2)** The base area is $9 \times 9 = 81$ square feet. Since $324 \div 81 = 4$, the height is 4 ft.
- 19) **Choice B is correct.** **(5.PAFR.1.2)** Calculate: $(50 \times 11) + (4 \times 11) + (50 \times 6) + (4 \times 6) = 550 + 44 + 300 + 24 = 918$.
- 20) **Choices A, B are correct.** **(5.MGSR.3.2)** The second coordinate is 3 times the first coordinate, so (2, 6) is on the pattern. C would need second coordinate 9, and D ignores the up-3 rule.
- 21) **Choice D is correct.** **(5.PAFR.3.2)** Since $\frac{3}{4} < 1$, multiplying by it makes the result smaller than 5.
- 22) **Choice A is correct.** **(5.NR.1.1)** Combine: $56 + 34 = 90$ shaded squares. This equals 0.90 (regroup: 90 hundredths = 9 tenths).
- 23) **Choice C is correct.** **(5.DPSR.1.2)** There are two 1-yard ribbons, for 2 yards total. There is one $\frac{1}{4}$ -yard ribbon. The difference is $2 - \frac{1}{4} = 1\frac{3}{4}$ yards.
- 24) **Choice C is correct.** **(5.PAFR.2.3)** $10 \div \frac{1}{3} = 10 \times 3 = 30$.
- 25) **Choice C is correct.** **(5.NR.1.4)** $12.5 \div 100 = 0.125$ and $125 \div 1000 = 0.125$. Both quotients are equal.
- 26) **The correct answer is 6.78.** **(5.NR.1.1)** Subtracting with borrowing: $15.05 - 8.27 = 6.78$.
- 27) **Choice B is correct.** **(5.NR.1.4)** One pen costs 0.45. For 100 pens, move the decimal two places right: $0.45 \times 100 = 45$.
- 28) **Choice D is correct.** **(5.PAFR.3.4)** The parentheses give $15 + 5 = 20$. Then $20 \div 4 = 5$ and $3 \times 2 = 6$, so the final sum is $5 + 6 = 11$.
- 29) **Choice B is correct.** **(5.MGSR.3.2)** A vertical line has the same x-coordinate for both points. Choice B has both points at $x = 4$, making them vertical.



Greetings, Mathematical Composer!

★ Beautiful composition! You've written five complete mathematical symphonies, carefully arranging mathematical notes, creating harmonious solutions, and expressing elegant problem-solving like a master composer! Each problem was a musical piece requiring rhythm, structure, and creative expression. Your mathematical compositions have reached professional quality! ★

◇ **Here's what renowned composers understand:** creating beautiful music requires understanding musical theory, practicing techniques, and developing personal style. They compose numerous pieces, refining their craft with each creation. You've done exactly that through these five tests! Each test was a new composition, and you've developed your unique mathematical voice! ◇

Musical Review of Compositions

- **Melody Creation:** Your solution paths flow smoothly and logically!
- **Harmonic Balance:** You combine different methods beautifully!
- **Rhythm Precision:** You maintain steady pacing throughout tests!
- **Performance Ready:** Your compositions are ready for the grand concert!

Remember this musical truth: great composers trust their instincts when performing. After five complete compositions, your mathematical instincts are finely tuned. On test day, let your knowledge flow naturally like music. Don't overthinktrust the beautiful mathematical melodies you've composed through practice!

Want to share a particularly elegant mathematical composition or discuss solution harmonies? Send your musical works to reza@testinar.com. I appreciate mathematical artistry!

Reza Nazari & Jay Daie

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