

8

FULL-LENGTH

South Carolina

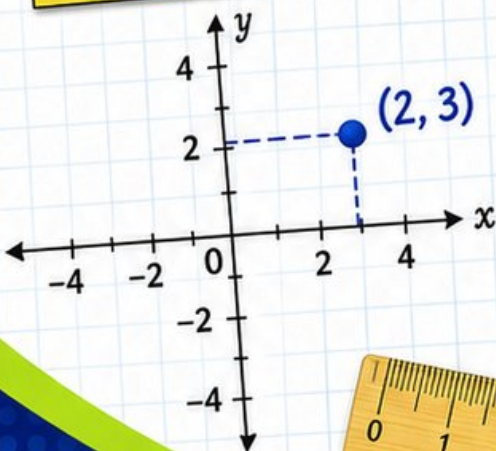
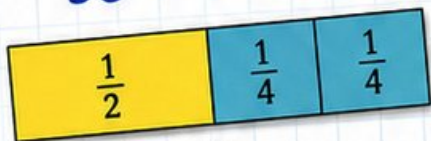
SC READY

GRADE 5

MATH PRACTICE TESTS

Mixed Practice Questions with Answer Key
for Students, Parents, and Teachers

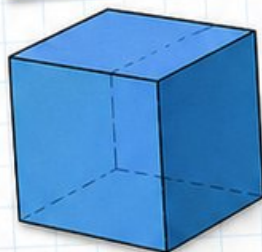
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

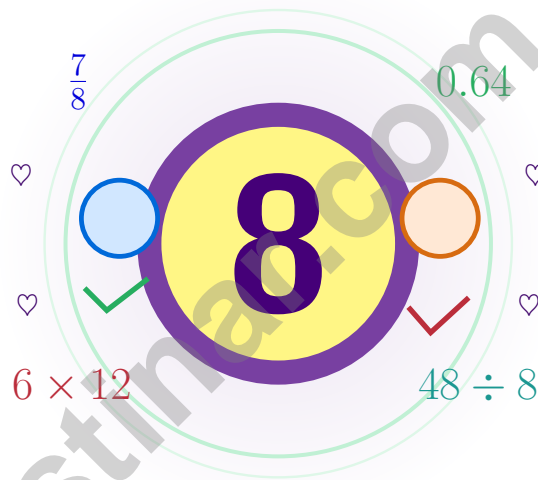
$$7 \times (12 - 5) = 49$$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



8 South Carolina SC READY Grade 5 Math Practice Tests

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



Eight full tests, a focused quick review, and helpful support that turns Grade 5 practice in The Palmetto State into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari



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South Carolina, Your Eight-Test Trail Begins

Eight full tests woven into one calm, steady practice path

Dear South Carolina Math Trail Crew

This practice book is your steady companion for eight tests, not a place to be perfect. Math practice grows like a palmetto – tall, flexible, and ready for any breeze.

Use these eight tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up across seven rounds.

Notice

Notice the numbers, units, and any tricky words.

Sketch

Sketch a picture, table, or quick number line.

Confirm

Confirm your answer with an estimate or check.

A strong habit for South Carolina mathematicians: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

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Your Eight-Step Trail Plan

A simple routine that turns practice into progress

Step 1: Plan

Plan a quiet hour for one full test.
Spend a few minutes waking up your memory before the test begins.

Step 2: Practice

Take the test with calm focus.
Work in a calm spot and focus on careful thinking before speed.

Step 3: Inspect

Inspect every answer like a careful builder.
Circle missed questions and notice which topics keep showing up.

Step 4: Adjust

Adjust what needs adjusting for the next test.
Read the explanation, repair the work, and bring that lesson into the next test.



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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 $A = l \times w$

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

LENGTH

Customary

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

1 yard (yd) = 3 feet (ft)

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Metric

1 meter (m) = 100 centimeters (cm)

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CAPACITY

Customary

1 cup (c) = 8 fluid ounces (fl oz)

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WEIGHT AND MASS

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TIME

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1 hour (hr) = 60 minutes (min) 1 year = 12 months

1 day = 24 hours (hr) 1 year = 52 weeks



1) Write 0.8 as a fraction.

- A. $\frac{8}{100}$
 B. $\frac{8}{1000}$

- C. $\frac{80}{10}$
 D. $\frac{8}{10}$

2) Which name describes a triangle with two equal sides and one right angle?

- A. Right isosceles triangle
 B. Equilateral triangle

- C. Right scalene triangle
 D. Obtuse isosceles triangle

3) A water bottle is $\frac{3}{4}$ full. After drinking $\frac{1}{6}$ of the full bottle, how much water is left?

- A. $\frac{4}{12}$
 B. $\frac{2}{4}$

- C. $\frac{9}{12}$
 D. $\frac{7}{12}$

4) A carpenter needs a board $3\frac{3}{4}$ feet long. If he needs 3 boards, what total length must he cut?

Board #	Length per board	Total
1	$3\frac{3}{4}$ ft	$3\frac{3}{4}$ ft
2	$3\frac{3}{4}$ ft	$7\frac{1}{2}$ ft
3	$3\frac{3}{4}$ ft	?

- A. $11\frac{1}{4}$ feet
 B. 11 feet

- C. $10\frac{1}{2}$ feet
 D. 12 feet

5) Add: $\frac{7}{8} + 3\frac{3}{8}$

- A. $3\frac{9}{8}$
 B. $4\frac{1}{4}$

- C. $4\frac{3}{8}$
 D. $4\frac{1}{2}$



6) What is $23 \times 10 \times 10$?

A. 230

C. 23000

B. 460

D. 2300

7) One third pound of clay is split equally among 4 students. Which division equation finds each share?

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

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

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

D. $4 + \frac{1}{3} = n$

8) Three friends share \$63.45 equally. How much does each friend get?

A. \$19.15

C. \$21.15

B. \$20.15

D. \$18.15

9) A track coach records times for three runners:

Runner	Time (seconds)
Jasmine	52.8
Marcus	49.5
Sophia	51.2

What is the difference between the fastest and slowest time?

A. 1.6 seconds

C. 3.3 seconds

B. 2.3 seconds

D. 3.7 seconds

10) Pattern: 1, 3, 6, 10, 15, ... Which statement explains the rule and gives the next two terms?

A. Add 2 each time; next terms are 17 and 19

B. Add 2, then 3, then 4, then 5, and so on; next terms are 21 and 28

C. Multiply by 2; next terms are 30 and 60

D. Add 5 each time; next terms are 20 and 25



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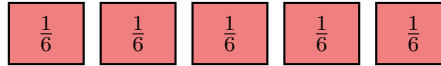
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1) Which shows the pattern for 0.08, then 0.08×10 , then 0.08×100 , then $0.08 \times 1,000$?

- A. 0.08, 80, 800, 8000 C. 0.08, 0.8, 8, 800
 B. 0.08, 8, 80, 800 D. 0.08, 0.8, 8, 80

2) Bar model with 5 groups of $\frac{1}{6}$:



What is $5 \times \frac{1}{6}$?

- A. $\frac{5}{6}$ C. $\frac{1}{30}$
 B. $\frac{6}{5}$ D. $\frac{5}{1}$

3) A rectangular prism has volume 256 cm^3 , length 16 cm, and width 4 cm. What is the height?

- A. 2 cm C. 4 cm
 B. 3 cm D. 5 cm

4) Which factor makes $15 \times \text{factor} = 15$?



Compare each factor to 1

- A. $\frac{7}{8}$ C. $\frac{9}{7}$
 B. 1 D. $1\frac{1}{2}$



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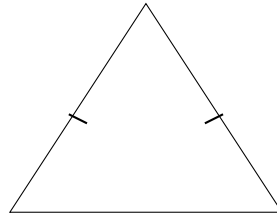
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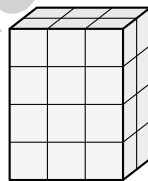
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- 1) Look at the triangle with tick marks. What type of triangle is it based on its sides?



- A. Scalene
- B. Isosceles
- C. Equilateral
- D. Right
- 2) Match the expression with the context: A chef divides 7 cups of water into $\frac{1}{3}$ -cup servings for soup stock.
- A. $7 \times \frac{1}{3}$
- B. $7 \div \frac{1}{3}$
- C. $7 - \frac{1}{3}$
- D. $\frac{1}{3} \div 7$
- 3) A rectangular prism has 4 layers, each with 6 unit cubes arranged in a 2 by 3 pattern. What is the total volume?



- A. 6 unit cubes
- B. 10 unit cubes
- C. 24 unit cubes
- D. 12 unit cubes



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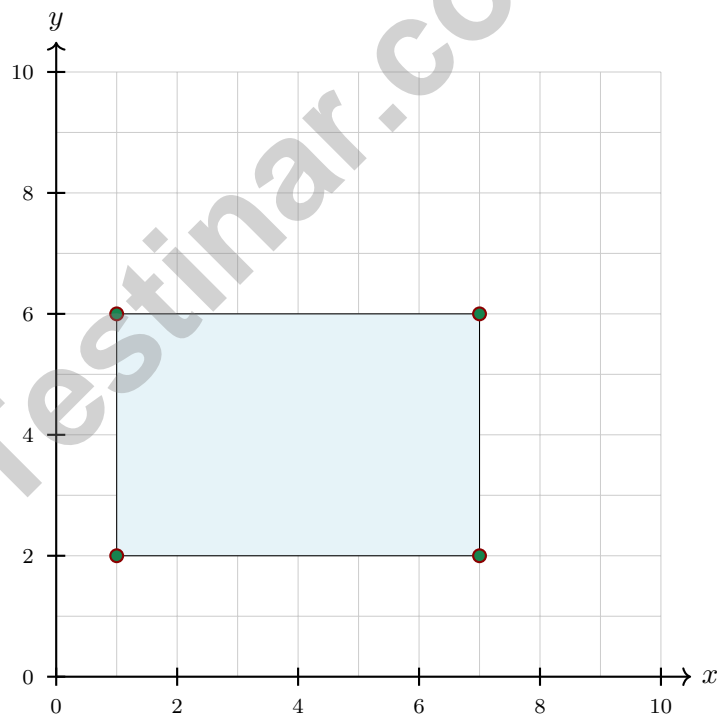
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- 1) A recipe calls for 6.75 cups of flour. You have already mixed 2.43 cups. How many more cups do you need?
- A. 4.32 cups C. 4.12 cups
 B. 4.42 cups D. 3.92 cups
- 2) Three number pattern sequences are listed for rows: Row 1 uses 1, 2, 3, 4; Row 2 uses 10, 20, 30, 40. Which (Row 1, Row 2) pair corresponds to position 3?
- A. (4, 40) C. (1, 10)
 B. (2, 20) D. (3, 30)
- 3) Four points are plotted to form a quadrilateral: (1, 2), (7, 2), (7, 6), and (1, 6). What shape is formed?



- A. Trapezoid C. Rectangle
 B. Triangle D. Hexagon



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 D is correct.** **(5.NR.1.1)** 0.8 has one decimal place, which represents tenths. So $0.8 = \frac{8}{10}$.
- 2) **Choice A is correct.** **(5.MGSR.1.1)** Two equal sides make the triangle isosceles. One right angle makes it a right triangle, so the name is right isosceles triangle.
- 3) **Choice D is correct.** **(5.PAFR.2.2)** $\frac{3}{4} - \frac{1}{6}$: common denominator is 12. $\frac{3}{4} = \frac{9}{12}$ and $\frac{1}{6} = \frac{2}{12}$. So $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$.
- 4) **Choice A is correct.** **(5.PAFR.3.2)** $3\frac{3}{4} \times 3 = \frac{15}{4} \times 3 = \frac{45}{4} = 11\frac{1}{4}$ feet.
- 5) **Choice B is correct.** **(5.PAFR.2.1)** Add: $\frac{7}{8} + 3\frac{3}{8} = 3\frac{10}{8} = 4\frac{1}{4}$.
- 6) **Choice D is correct.** **(5.NR.1.4)** $23 \times 10 = 230$, then $230 \times 10 = 2300$. Or $23 \times 10^2 = 2300$.
- 7) **Choice C is correct.** **(5.NR.1.4)** The unit fraction is the amount being shared, so divide $\frac{1}{3}$ by 4. The equation is $\frac{1}{3} \div 4 = n$.
- 8) **Choice C is correct.** **(5.PAFR.3.4)** Divide: $63.45 \div 3 = 21.15$ dollars per friend.
- 9) **Choice C is correct.** **(5.MGSR.2.1)** Fastest: 49.5 seconds (Marcus). Slowest: 52.8 seconds (Jasmine). Difference: $52.8 - 49.5 = 3.3$ seconds.
- 10) **Choice B is correct.** **(5.MGSR.3.1)** The amount added grows by 1 each time: add 2, then 3, then 4, then 5. Next add 6 to get 21, then add 7 to get 28.
- 11) **Choice D is correct.** **(5.MGSR.3.2)** The x-coordinate represents hours studied (5 hours) and the y-coordinate represents the test score (85 points). So the point (5, 85) means a student studied for 5 hours and earned a score of 85.
- 12) **Choice D is correct.** **(5.MGSR.1.1)** Rectangles and squares have four right angles, and their opposite sides are parallel.
- 13) **Choice B is correct.** **(5.PAFR.1.1)** The words “the sum of 7 and 5” mean 7 and 5 must be grouped together as (7 + 5). Then multiply that whole sum by 3.
- 14) **Choice A is correct.** **(5.DPSR.1.2)** Add the fractional measurements shown: $3(\frac{1}{2}) + 2(1) + 3(1\frac{1}{2}) + 2 + 2\frac{1}{2} = 12\frac{1}{2}$ hours.
- 15) **Choice C is correct.** **(5.NR.1.1)** Add dollars and cents by place value: $3.68 + 2.47 = 6.15$. The total cost is \$6.15.
- 16) **Choice C is correct.** **(5.NR.2.1)** $\text{LCM}(3,5) = 15$. $\frac{2}{3} = \frac{10}{15}$ and $\frac{3}{5} = \frac{9}{15}$. $\frac{10}{15} + \frac{9}{15} = \frac{19}{15} = 1\frac{4}{15}$.
- 17) **Choice C is correct.** **(5.MGSR.2.1)** Convert all to mL: A = 800 mL, B = 850 mL, C = 750 mL. Since $750 < 800 < 850$, Sample C is smallest.
- 18) **Choice B is correct.** **(5.DPSR.1.3)** Count the X marks above 3. There are 3 X marks, so 3 students were absent exactly 3 days.
- 19) **Choice D is correct.** **(5.NR.1.2)** Multiplying 0.07 by 10 shifts the decimal point one place to the right: $0.07 \times 10 = 0.7$.
- 20) **Choices A, B are correct.** **(5.PAFR.1.2)** $27 \times 46 = 1242$ and $54 \times 23 = 1242$. The other products are $42 \times 30 = 1260$ and $18 \times 72 = 1296$.
- 21) **Choice C is correct.** **(5.NR.1.4)** Dividing by 100: $12.6 \div 100 = 0.126$ liters per portion.
- 22) **Choice C is correct.** **(5.PAFR.3.2)** $7 \times \frac{3}{2} = \frac{21}{2} = 10\frac{1}{2}$ cm. The bar diagram shows the scaled length is longer, as $\frac{3}{2} > 1$.
- 23) **Choice D is correct.** **(5.NR.1.4)** Dividing by 10 makes the number one-tenth as large, so 9.6 becomes 0.96.
- 24) **Choice A is correct.** **(5.NR.1.4)** Both J at (2, 4) and K at (7, 4) have y-coordinate 4, so they share the same y-coordinate.
- 25) **Choice A is correct.** **(5.MGSR.2.1)** Since 1 pound = 16 ounces, 3 pounds = $3 \times 16 = 48$ ounces. Carlos is correct.
- 26) **The correct answer is 9.** **(5.NR.1.3)** Use place-value reasoning to keep the decimal in the correct place. Multiply both by 10: $72 \div 8 = 9$. This confirms the answer.
- 27) **Choice A is correct.** **(5.NR.1.3)** Dividing by 10 moves the decimal point one place to the left. $480 \div 10 = 48$.
- 28) **Choice D is correct.** **(5.NR.1.4)** Common denominator for 3 and 2 is 6. $\frac{1}{3} = \frac{2}{6}$ and $\frac{1}{2} = \frac{3}{6}$.
- 29) **The correct answer is 4 cm.** **(5.MGSR.1.2)** The base area is $9 \times 5 = 45$ square centimeters. Divide 180 by 45 to get a height of 4 centimeters.



Notes From Your Math Architect

Dear Builder of Big Ideas,

◇ Across 8 practice tests, you laid down brick after brick of math skill. The foundation is solid. The walls are strong. The roof is in place. You've built yourself a study sturdy enough to stand any storm test day might bring. ◇

★ **What architects know:** a great building starts with a great plan. You've practiced planning—reading carefully, picking your strategy, and working step by step. That blueprint thinking is what turns hard problems into clear answers. ★

Builder's Inspection Checklist

- **Foundation:** ROCK SOLID! Number sense, fractions, decimals—all in place.
- **Frame:** STRONG! You can break down a problem into clear parts.
- **Walls:** TIGHT! Your work is organized and easy to follow.
- **Roof:** FINISHED! You always answer the question that was asked.

Architect's tip: on test day, build each answer like a small building. Foundation: read the question. Frame: pick the strategy. Walls: do the math. Roof: check the answer. Each piece matters. Each piece is yours.

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie

Your Math Architect (Built to Last)

$45 \div 5 = ?$

PRACTICE TODAY.

$\frac{3}{5} + \frac{1}{10} = ?$



ACHIEVE TOMORROW!



$3^2 + 4^2 = 25$

This book includes **8** full-length **Grade 5** math practice tests to help students master essential skills, build confidence, and achieve success. Each test is carefully designed to reflect real math standards and cover a variety of question types with detailed answer explanations.

$7x - 4 = 17$

$1\frac{1}{2} + 2\frac{1}{3} = ?$

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Identify strengths and focus on areas that need improvement.



ACHIEVE SUCCESS

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