

8

FULL-LENGTH

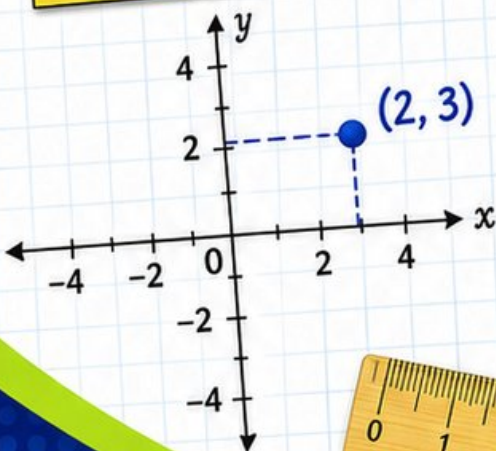
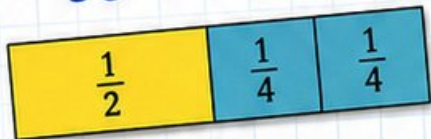
Missouri MAP

GRADE 5

MATH PRACTICE TESTS

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

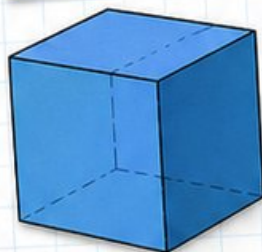
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

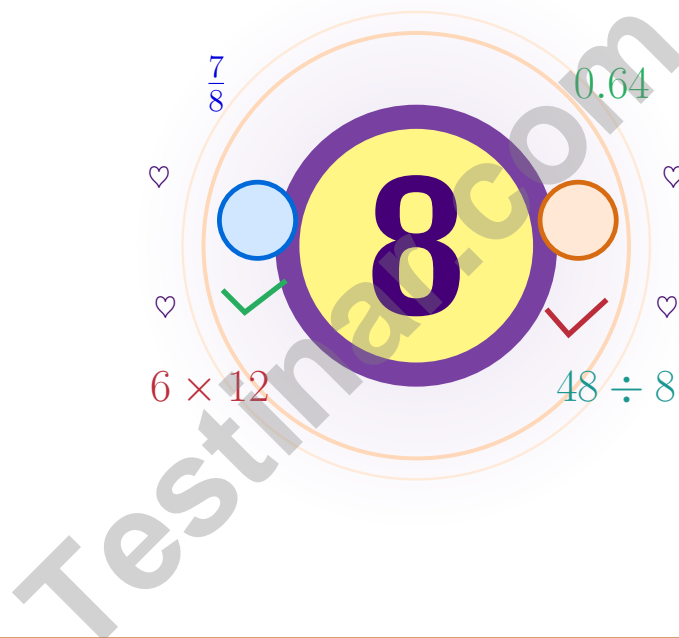
$$7 \times (12 - 5) = 49$$

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 Missouri MAP Grade 5 Math Practice Tests

Eight full tests woven into one calm, steady practice path



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

Jay Daie and Reza Nazari



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Missouri Grade 5: Practice Path Briefing

A eight-step adventure for Missouri Grade 5 thinkers

Just for Missouri Grade 5 Trail Specialists

This practice book is your steady companion for eight tests, not a place to be perfect. Math is like the Gateway Arch – it stands strong because every careful step in the design holds the whole thing up.

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.

Watch

Watch what the problem actually wants from you.

Choose

Choose the operation, model, or table that fits.

Polish

Check labels, units, and the final word of the question.

A strong habit for Missouri 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 Step-by-Step Plan

A simple routine that turns practice into progress

Step 1: Open

Open the warm-up review and use it.

Spend a few minutes waking up your memory before the test begins.

Step 2: Test

Take the test with steady focus.

Work in a calm spot and focus on careful thinking before speed.

Step 3: Reflect

Notice what was sharp and what was shaky.

Circle missed questions and notice which topics keep showing up.

Step 4: Sharpen

Practice the shaky skills before the next round.

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 $A = l \times w$

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

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

LENGTH

Customary

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

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WEIGHT AND MASS

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1) A club has 7 pizzas. Each student receives one fourth pizza. Which division equation matches the situation?

A. $\frac{1}{4} \div 7 = n$

B. $7 \times \frac{1}{4} = n$

C. $7 + \frac{1}{4} = n$

D. $7 \div \frac{1}{4} = n$

2) Add: $1\frac{2}{7} + 3\frac{5}{7}$

A. $4\frac{1}{7}$

B. 5

C. $5\frac{1}{7}$

D. $5\frac{2}{7}$

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

A. 90

B. 900

C. 9,000

D. 90,000

4) Which pair of expressions have the same value?

A. $3,000 \div 10$ and $300 \div 10$

B. $2,100 \div 100$ and $210 \div 10$

C. $5,600 \div 1,000$ and $56 \div 100$

D. $1,500 \div 100$ and $1,500 \div 1,000$

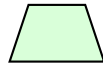
5) Which statement is false?



Square



Rhombus



Trapezoid



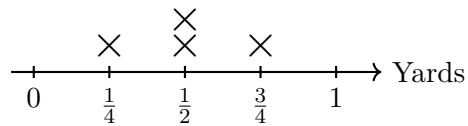
Kite



Pentagon

 A. A square is a rhombus. B. A rhombus is a parallelogram. C. A pentagon is a quadrilateral. D. A kite has 2 pairs of equal sides.

6) The line plot shows lengths of ribbon, in yards. What is the total length of all the ribbons?



Record your answer in the space provided.

7) Sort these decimals on a number line:

0.2, 0.02, 0.22, 0.12



Which is the correct order (left to right)?

A. 0.02, 0.12, 0.2, 0.22

C. 0.22, 0.2, 0.12, 0.02

B. 0.02, 0.2, 0.12, 0.22

D. 0.12, 0.02, 0.22, 0.2

8) A science class measures the height of plant growth. One plant grows 2.3 cm per week. How much will it grow in 8 weeks?

A. 16.4 cm

C. 18.4 cm

B. 17.4 cm

D. 19.4 cm



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1) Which fraction is equivalent to the decimal 0.75?

- A. $\frac{75}{10}$
 B. $\frac{75}{1000}$

- C. $\frac{7}{5}$
 D. $\frac{75}{100}$

2) Find the quotient: $4.2 \div 10$.

Record your answer in the space provided.

3) Evaluate: $25 - (8 + 2) \div 5$

- A. 3
 B. 17

- C. 21
 D. 23

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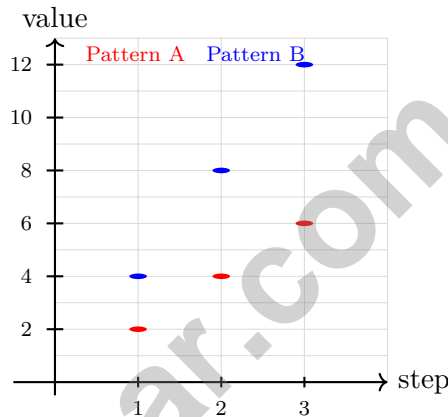
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- 1) Two patterns are shown on a coordinate grid. Pattern A is plotted at (1, 2), (2, 4), (3, 6). Pattern B is plotted at (1, 4), (2, 8), (3, 12). What rule describes the relationship?

Step	Pattern A	Pattern B
1	2	4
2	4	8
3	6	12



- A. Pattern B is 1 more than Pattern A C. Pattern B is twice Pattern A
 B. Pattern B increases by the step number D. Pattern B is 3 times the step number
- 2) Which expression does NOT equal 0.73?
- A. $73 \div 100$ C. $730 \div 1000$
 B. $7.3 \div 10$ D. $73 \div 10$
- 3) Write a division equation for: 7 wholes split into half-size pieces.

Record your answer in the space provided.



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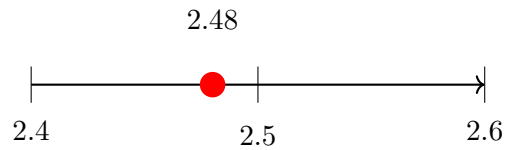
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- 1) Round 2.48 to the nearest tenth. Use the number line to help.



- A. 2.4 C. 2.6
 B. 2.48 D. 2.5
- 2) At a farmers market, the price of apples is graphed as “pounds of apples” versus “total price.” If a point is at (6,12), what does this mean?
- A. 6 apples cost \$12 each C. 12 pounds cost \$6
 B. 6 pounds of apples cost \$12 total D. 18 pounds cost \$6 total
- 3) Simplify: $4 \times \frac{5}{12}$
- A. $\frac{5}{3}$ C. $\frac{5}{12}$
 B. $\frac{20}{15}$ D. $1\frac{1}{3}$
- 4) A rectangular drawer measures 12 inches long, 7 inches wide, and 4 inches tall. What is its volume?
- A. 84 cubic inches C. 48 cubic inches
 B. 336 cubic inches D. 28 cubic inches
- 5) A farmer needs fencing for three pastures: Pasture A: 180 meters, Pasture B: 165 meters, Pasture C: 225 meters.
If fencing costs 12 dollars per meter, what is the total cost?
- A. \$5,400 C. \$6,840
 B. \$6,120 D. \$7,200



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.NF.B.8) Use total amount divided by the size of one piece. The equation is $7 \div \frac{1}{4} = n$.
- 2) **Choice B is correct.** (5.NF.B.6) Add: $1\frac{2}{7} + 3\frac{5}{7} = 4\frac{7}{7} = 5$.
- 3) **Choice C is correct.** (5.NF.B.6) The exponent tells us there are three factors of 10, so $10^3 = 1,000$. Then $9 \times 1,000 = 9,000$.
- 4) **Choice B is correct.** (5.NBT.A.4) Compute each pair. A: $3,000 \div 10 = 300$ and $300 \div 10 = 30$ ($300 \neq 30$). B: $2,100 \div 100 = 21$ and $210 \div 10 = 21$ — both equal 21 ✓. C: $5,600 \div 1,000 = 5.6$ and $56 \div 100 = 0.56$ ($5.6 \neq 0.56$). D: $1,500 \div 100 = 15$ and $1,500 \div 1,000 = 1.5$ ($15 \neq 1.5$).
- 5) **Choice C is correct.** (5.GM.A.1) A pentagon has 5 sides, while a quadrilateral has 4 sides. So a pentagon is not a quadrilateral.
- 6) **The correct answer is 2 yards.** (5.DS.A.2) Add the values shown by the line plot: $\frac{1}{4} + \frac{1}{2} + \frac{1}{2} + \frac{3}{4} = 2$ yards.
- 7) **Choice A is correct.** (5.NF.A.3) Left to right on a number line: $0.02 < 0.12 < 0.2 < 0.22$.
- 8) **Choice C is correct.** (5.RA.C.5) Choose the operation from the story, then keep the unit with the answer. Multiply: $2.3 \times 8 = 18.4$ centimeters. This confirms the answer.
- 9) **Choice B is correct.** (5.NF.B.6) $\frac{3}{7} \times \frac{7}{9} = \frac{21}{63}$, which simplifies to $\frac{1}{3}$ liter.
- 10) **The correct answer is (2, 6).** (5.GM.C.7) The first pair is (0, 0). After one step, A is 2 and B is 6, giving (2, 6).
- 11) **Choice C is correct.** (5.GM.C.7) $\frac{4}{3} \approx 1.33$, which is between 1 and 2. So $18 \times \frac{4}{3}$ is between $18 \times 1 = 18$ and $18 \times 2 = 36$.
- 12) **The correct answer is $\frac{1}{2}$.** (5.NF.B.6) $\frac{1}{3} = \frac{2}{6}$. Remaining: $\frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$.
- 13) **The correct answer is 18 cubic units.** (5.NF.B.6) The prism has $3 \times 3 = 9$ cubes in each layer and 2 layers. That gives $9 \times 2 = 18$ cubic units.
- 14) **Choice D is correct.** (5.GM.B.4) $6 \div \frac{1}{3} = 6 \times 3 = 18$. There are 18 portions.
- 15) **Choice C is correct.** (5.NBT.A.4) $23 \times 10 = 230$. When multiplying by 10, append one zero.
- 16) **Choice C is correct.** (5.NBT.A.4) Find each part first: Prism A is $8 \times 2 \times 3 = 48$ cubic feet, and Prism B is $3 \times 5 \times 5 = 75$ cubic feet. Because the parts do not overlap, add them: $48 + 75 = 123$ cubic feet.
- 17) **Choice C is correct.** (5.GM.B.5) Prism A: $9 \times 4 \times 3 = 108 \text{ cm}^3$. Prism B: $6 \times 6 \times 3 = 108 \text{ cm}^3$.
- 18) **Choices A, B are correct.** (5.NF.B.4) 4.678 rounds to 4.7 to the nearest tenth and 4.68 to the nearest hundredth. C should round up to 5, and D rounds down incorrectly.
- 19) **Choice B is correct.** (5.GM.A.2) A rhombus is a quadrilateral with all four sides equal in length. It does not have to have four right angles.
- 20) **Choice D is correct.** (5.GM.B.5) Use the rectangular-prism volume formula: $12 \times 7 \times 2 = 168$. So the volume is 168 cubic meters.
- 21) **Choice D is correct.** (5.RA.A.1) Each output is 3 times the input: $1 \times 3 = 3$, $2 \times 3 = 6$, and $3 \times 3 = 9$. So the missing output for input 4 would be 12.
- 22) **Choice A is correct.** (5.GM.A.2) All three angles are less than 90° , so the triangle is acute. All three side lengths are different, so it is scalene.
- 23) **Choice D is correct.** (5.NF.B.5) $\frac{3}{4} \times 2\frac{2}{3} = \frac{3}{4} \times \frac{8}{3} = \frac{24}{12} = 2$ cups.
- 24) **Choice B is correct.** (5.NF.B.4) A is close to $\frac{1}{2}$, B equals $\frac{1}{2}$, C is about 0.4, and D is about 0.41. B is exact, so it is the closest.
- 25) **Choice B is correct.** (5.RA.B.3) The parentheses tell you what to do first. Since $3 \times 4 = 12$, the expression becomes $20 - 12$, which equals 8.
- 26) **Choice D is correct.** (5.RA.B.3) Listing multiples helps you find the smallest number both denominators divide into evenly. That smallest shared multiple is the least common denominator.
- 27) **Choice D is correct.** (5.NF.B.6) $\text{LCM}(8,6) = 24$. $\frac{5}{8} = \frac{15}{24}$ and $\frac{1}{6} = \frac{4}{24}$. $\frac{15}{24} + \frac{4}{24} = \frac{19}{24}$.
- 28) **Choice D is correct.** (5.GM.D.9) Two servings is $\frac{1}{4}$ of 8 servings. The full recipe uses 20 fluid ounces, so $20 \div 4 = 5$ fluid ounces.



Captain's Log—Voyage Complete

First Mate, Well Done!

◇ You sailed through 8 practice tests with steady hands and a sharp eye. The waters got rough sometimes, but you kept your course. That's what good sailors do. Now the harbor (test day) is in sight, and you are ready to dock with confidence. ◇

★ **Captain's wisdom:** a good sailor doesn't fight the wind—they read it and adjust. On a test, the same thing is true. When a problem feels tricky, don't panic. Read it again. Try a new strategy. Adjust the sails of your thinking. ★

Captain's Skills Inventory

- **Steady Steering:** EXCELLENT! You stay on course even when problems get tough.
- **Wind Reading:** STRONG! You can spot what a problem is really asking.
- **Crew Spirit:** HIGH! You believe in your own ability.
- **Harbor Approach:** READY! You know how to finish a test calmly.

Final captain's note: the best voyages combine planning with courage. You have both. Trust the chart you built through these 8 tests. Trust your hands on the wheel. Then sail confidently into test day.

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 Captain (Smooth Sailing Ahead)

$45 \div 5 = ?$

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.

$7x - 4 = 17$

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

8 FULL-LENGTH MATH PRACTICE TESTS



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Tests mirror Grade 5 math standards and real assessment formats.



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Detailed answer explanations help students understand and learn.



BUILD CONFIDENCE & SKILLS

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IMPROVE & TRACK PROGRESS

Identify strengths and focus on areas that need improvement.



ACHIEVE SUCCESS

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