

7

Missouri

MAP

GRADE 5

MATHEMATICS

PRACTICE TESTS

✓
**PRACTICE
PREPARE
SUCCEED**

★★★

Comprehensive Standards-Aligned
Review for Strong Grade 5
Math Performance



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

$$2.4 + 1.6 = 4.0$$

$$A = \frac{bh}{2}$$



**7 FULL-LENGTH
PRACTICE TESTS**

Realistic style
questions



**STANDARDS-
ALIGNED**

Covers all Grade 5
standards



BUILD CONFIDENCE

Target weak areas
and improve
performance



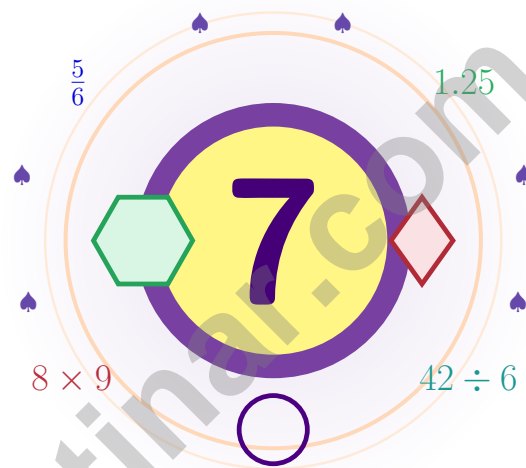
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. **SUCCEED** FOREVER. ★

7 Missouri MAP Grade 5 Math Practice Tests

Seven full tests woven into one calm, steady practice path



Seven full tests, a concise 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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Step Into the Practice Path, Missouri

A seven-step expedition for curious Grade 5 thinkers

For Every Curious Mind in Missouri

This practice book is your steady companion for seven 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 seven 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 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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Seven Tests, Seven Lessons

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.

A Good 7-Week Missouri Rhythm

Week 1	Take Test 1 and show me your starting work.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and lift fraction and decimal work.
Week 4	Take Test 4 and pay close attention to labels and units.
Week 5	Take Test 5 and compare your habits with your first test.
Week 6	Take Test 6 and practice staying calm during tricky questions.
Week 7	Take Test 7 with calm, careful, confidently shown work.



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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.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary

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

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

Metric

1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

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TIME

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



1) Kim has \$50. She buys 3 notebooks at \$8 each and a pen at \$4. Which expression shows her money left?

A. $50 - 3 \times 8 - 4$

C. $50 - (3 + 8 + 4)$

B. $(50 - 3) \times 8 - 4$

D. $3 \times 8 + 4 - 50$

2) Compare without calculating: $(24 \times 10) \square (24 \times 100) \div 10$

A. $>$

C. $=$

B. $<$

D. Cannot tell

3) At a sports store, Jordan buys a soccer ball for \$24.99 and shin guards for \$18.50. He pays with a \$50 bill. How much change does he receive?

Item	Price
Soccer Ball	\$24.99
Shin Guards	\$18.50
Subtotal	?
Paid	\$50.00
Change	?

A. \$4.51

C. \$7.51

B. \$5.51

D. \$6.51

4) A student wrote the expanded form of 9.452 as $9 + 0.4 + 0.005 + 0.002$. What error did the student make?

 A. This is the correct expanded form for 9.452. C. The expanded form has five place values, but we can only use four. B. The hundredths term should be 0.05, not 0.005. D. The student added fractions instead of decimal values.

5) Which step shows the correct first quotient digit and subtraction for $816 \div 34$?

Step	Work
A	$34 \times 2 = 68; 81 - 68 = 13$
B	$34 \times 3 = 102; 102 < 81$
C	$34 \times 2 = 68; 816 - 68 = 748$
D	$34 \times 1 = 34; 81 - 34 = 37$

A. A

C. C

B. B

D. D

6) Section A is $4\frac{2}{3}$ m, Section B is $3\frac{1}{3}$ m. Total?

A. 7 m

C. 8 m

B. $7\frac{1}{3}$ m

D. $8\frac{1}{3}$ m

7) Point P is at (3, 2) on a coordinate plane. If point P is moved 2 units right and 3 units up, what are the new coordinates of P'?

A. $P'(5, 5)$

C. $P'(5, 2)$

B. $P'(1, 5)$

D. $P'(3, 5)$

8) Pattern: 7, 14, 21, 28, ... Which is NOT a term?

A. 49

C. 75

B. 63

D. 84

9) A rectangular sandbox has volume 140 cubic feet. Its base is 7 feet by 4 feet. What is its height?

A. 4 feet

C. 5 feet

B. 6 feet

D. 28 feet



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1) Which statement is true?

A. $6 \times 1 = 6$ and $6 \times \frac{3}{4} < 6$

C. $6 \times 1 = 6$ and $6 \times \frac{3}{4} = 6$

B. $6 \times 1 = 6$ and $6 \times \frac{3}{4} > 6$

D. $6 \times \frac{3}{4} > 6 \times 1$

2) A garden plot is $\frac{4}{5}$ meter long and $\frac{3}{4}$ meter wide. What is the area in square meters? Give the answer in simplest form.

A. $\frac{7}{9} \text{ m}^2$

C. $\frac{12}{9} \text{ m}^2$

B. $\frac{3}{5} \text{ m}^2$

D. $\frac{8}{9} \text{ m}^2$

3) A rectangular prism has a base area of 72 cm^2 and a height of 5 cm. What is the volume?

Base area 72 cm^2
Height 5 cm

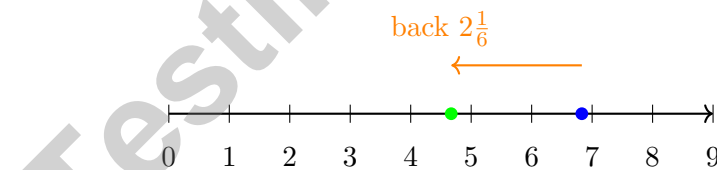
A. 300 cm^3

C. 360 cm^3

B. 330 cm^3

D. 400 cm^3

4) Subtract using the number line method: $6\frac{5}{6} - 2\frac{1}{6}$.



A. $4\frac{1}{3}$

C. $4\frac{3}{6}$

B. $5\frac{1}{6}$

D. $4\frac{2}{3}$

5) Which statement correctly explains the relationship between squares and rectangles?

 A. Every square is a rectangle because it has four right angles and two pairs of parallel sides.

 B. Every rectangle is a square because it has four right angles.

 C. No square is a rectangle because a square has all sides equal.

 D. A square is not a quadrilateral because it has four equal sides.


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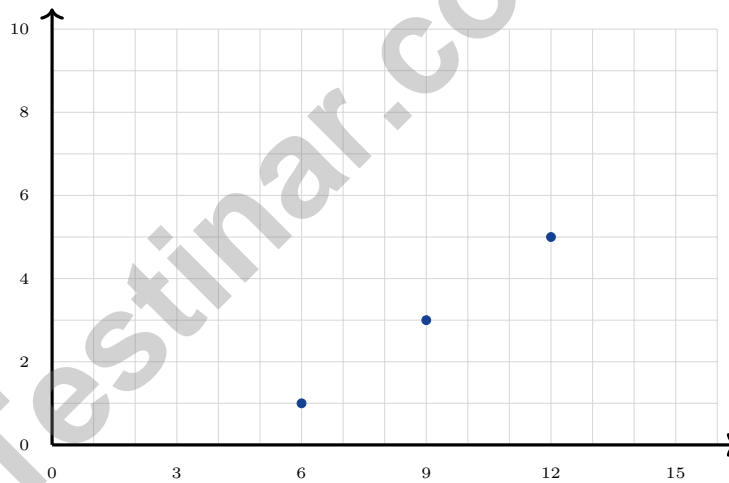
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- 1) A student says $\frac{6}{9}$ is equivalent to $\frac{6}{3}$ because the denominator was divided by 3. What is the student's mistake?
- A. Only the denominator was divided. D. The denominator should be multiplied by 3.
- B. Both numbers were divided by 3.
- C. The numerator should stay 6.
- 2) Carlos says 3 pounds = 48 ounces. Is Carlos correct?
- A. He is correct C. 3 pounds = 32 ounces
- B. He divided instead of multiplied D. 3 pounds = 64 ounces
- 3) A pattern uses Rule A (start at 6, add 3) and Rule B (start at 1, add 2). The first three ordered pairs are graphed. If the pattern continues, which point should be graphed next?



- A. (15, 8) C. (14, 7)
- B. (7, 15) D. (15, 7)



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

- Choice A is correct.** (5.RA.B.3) The notebooks cost 3×8 . The pen costs 4. To show the money left, subtract both costs from 50: $50 - 3 \times 8 - 4$.
- Choice C is correct.** (5.RA.B.3) Multiplying by 100 and then dividing by 10 has the same effect as multiplying by 10. So both expressions match 24×10 .
- Choice D is correct.** (5.RA.C.5) Total cost: $24.99 + 18.50 = 43.49$ dollars. Change: $50.00 - 43.49 = 6.51$ dollars.
- Choice B is correct.** (5.NBT.A.3) In 9.452, the digit 5 is in the hundredths place, so it is worth 0.05. The digit 2 is in the thousandths place, so it is worth 0.002.
- Choice A is correct.** (5.NBT.A.8) Start with first two digits: $81 \div 34 \approx 2$. Check: $34 \times 2 = 68$, and $81 - 68 = 13$. This is correct.
- Choice C is correct.** (5.NF.B.6) Add: $4\frac{2}{3} + 3\frac{1}{3} = 8$.
- Choice A is correct.** (5.GM.C.7) Start with $P(3, 2)$. Moving 2 units right adds 2 to the x-coordinate, and moving 3 units up adds 3 to the y-coordinate, giving $P'(5, 5)$.
- Choice C is correct.** (5.RA.A.1) Multiples of 7: 49, 63, 84 are multiples; 75 is not.
- Choice C is correct.** (5.GM.B.5) The base layer has $7 \times 4 = 28$ square units. Divide the volume by the base area: $140 \div 28 = 5$, so the height is 5 feet.
- Choice C is correct.** (5.GM.A.2) The circle for squares is completely inside the circle for rectangles, so every square shown is also a rectangle.
- Choice C is correct.** (5.NBT.A.6) Start with the hundredths: $4 - 5$ needs regrouping, so borrow 1 tenth. Then $14 - 5 = 9$ hundredths. The tenths become 5, and $5 - 2 = 3$ tenths. Ones: $9 - 3 = 6$. Result: 6.39.
- Choice C is correct.** (5.GM.B.5) Find each part first: Prism A is $8 \times 2 \times 4 = 64$ cubic feet, and Prism B is $3 \times 5 \times 4 = 60$ cubic feet. Because the parts do not overlap, add them: $64 + 60 = 124$ cubic feet.
- The correct answer is 5.** (5.NF.B.5) Convert first: $3\frac{1}{3} = \frac{10}{3}$ and $1\frac{1}{2} = \frac{3}{2}$. Then $\frac{10}{3} \times \frac{3}{2} = \frac{30}{6} = 5$.
- Choice D is correct.** (5.NF.B.8) The model counts half-size pieces in 4 wholes. So the matching equation is $4 \div \frac{1}{2} = n$.
- Choice A is correct.** (5.GM.D.8) Divide milliliters by 1,000: $750 \div 1000 = 0.75$ L.
- The correct answer is about 1.5.** (5.NF.B.4) $\frac{7}{8} \approx 1$ and $\frac{4}{9} \approx \frac{1}{2}$, so the estimate is $1\frac{1}{2}$. Accept $1\frac{1}{2}$, 1.5, or a clearly equivalent benchmark estimate.
- Choice A is correct.** (5.NF.B.7) $5 \times \frac{3}{4} = \frac{5 \times 3}{4} = \frac{15}{4} = 3\frac{3}{4}$.
- Choice D is correct.** (5.NBT.A.4) To convert meters to centimeters, multiply by 100: $1.5 \times 100 = 150$ cm.
- Choices A, B are correct.** (5.NBT.A.4) A and B both equal 1,000, so each has exactly 3 zeros at the end. C equals 100, which has 2 zeros at the end, and D equals 10,000, which has 4 zeros at the end.
- Choice D is correct.** (5.NBT.A.7) 5.4 has 1 decimal place. $54 \times 3 = 162$, so we move the decimal 1 place left: 16.2.
- The correct answer is $\frac{5}{9}$.** (5.NF.B.7) Multiplying by 1 does not change the value, so $1 \times \frac{5}{9} = \frac{5}{9}$.
- The correct answer is 2400.** (5.GM.D.9) Each kilogram has 1,000 grams. Two kilograms is 2,000 grams, and $2,000 + 400 = 2,400$ grams.
- Choice C is correct.** (5.NBT.A.4) A power of 10 tells how many factors of 10 to use. 10^2 means $10 \times 10 = 100$. This confirms the answer.
- The correct answer is 0.245.** (5.NBT.A.4) Move the decimal point two places left: $24.5 \rightarrow 0.245$.
- Choice A is correct.** (5.NF.B.5) $\frac{3}{5} \times \frac{5}{6} = \frac{15}{30}$, which simplifies to $\frac{1}{2}$.
- Choice A is correct.** (5.NF.B.6) If the only shared factor is 1, the product of the denominators is the smallest common multiple. If they share a larger factor, the product is still a common denominator, but it is not the least one.
- Choice C is correct.** (5.NF.B.4) Rounding 6.846 to the nearest hundredth: the thousandths digit is 6. Since $6 \geq 5$, round the hundredths digit up: 4 becomes 5, giving 6.85 kg.
- Choice C is correct.** (5.NF.B.8) $10 \div \frac{1}{2} = 10 \times 2 = 20$. We can cut 20 rolls.
- Choice D is correct.** (5.NF.B.8) This is $6 \div \frac{1}{3}$. There are 3 one-third-pound bundles in each pound, so 6 pounds makes 18 bundles.



Celebrate Your Progress

Dear Student,

★ Take a moment to be proud of yourself. Seven practice tests is a lot of work, and you did it. That shows responsibility and determination. ★

◇ **Progress happens in small steps:** one corrected mistake, one new strategy, one better explanation, one more careful check. Those small steps add up. ◇

Celebrate These Wins

- **Stamina:** you can focus through a full test.
- **Skills:** you practiced many Grade 5 topics.
- **Strategies:** you learned how to plan and check.
- **Confidence:** you know what to do when it's hard.

Keep your head up. Walk into test day knowing you prepared the right way.

Email me at reza@testinar.com.

Reza Nazari & Jay Daie

Your Math Coaches (Be Proud)

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PRACTICE TODAY. PERFORM TOMORROW.

Success in math starts with practice! This book provides the **practice, confidence, and skills** your child needs to excel on the Grade 5 Math test and beyond.

KEY BENEFITS:



TARGETED PRACTICE

Focus on the most important Grade 5 math skills.



STANDARD-ALIGNED

All tests align with state standards for Grade 5.



BUILD CONFIDENCE

Strengthen skills, reduce test anxiety, and boost confidence.



IMPROVE PERFORMANCE

Timed practice helps improve speed and accuracy.



ACHIEVE SUCCESS

Develop strong test-taking skills and achieve your best score!

PERFECT FOR:

✓ Classroom Practice

✓ Homework Help

✓ Test Preparation

✓ Summer Learning

✓ On-the-Go Practice

✓
PRACTICE
PREPARE
SUCCEED



STRONG SKILLS. BRIGHT FUTURE.

Give your child the tools they need to succeed in math and in life!



Visit testinar.com/math5 for more Grade 5 math resources and practice materials!



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Quality resources you can trust.



DESIGNED
FOR SUCCESS

Proven practice for real results.



SUPPORT
YOUR CHILD

Every step of the way.