

7

West Virginia

WVGSA

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



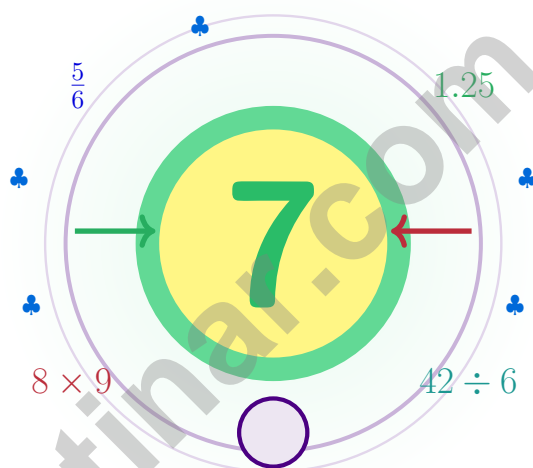
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

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

7 West Virginia WVGSA Grade 5 Math Practice Tests

A seven-step expedition for curious Grade 5 thinkers



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

Jay Daie and Reza Nazari



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Hello, West Virginia – Seven Tests, Steady Growth

Seven chances to read carefully, solve smartly, and grow stronger

To West Virginia Students Who Love a Puzzle

This practice book is your steady companion for seven tests, not a place to be perfect. Math is a lot like the Appalachian ridges – they rise one careful slope at a time, and so does your thinking.

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.

Read

Read with care – math problems hide their gifts.

Try

Try a strategy that fits the size of the numbers.

Reflect

Reflect after each problem to lock the lesson in.

A strong habit for West Virginia 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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How This Book Wants to Help

A simple routine that turns practice into progress

Step 1: Notice

Notice the structure: warm-up, test, review, repair.

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

Step 2: Practice

Practice one full test in quiet conditions.

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

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions and notice which topics keep showing up.

Step 4: Polish

Polish the rough spots before the next test.

Read the explanation, repair the work, and bring that lesson into the next test.

A Good 7-Week West Virginia Rhythm

Week 1	Take Test 1 like the first rise on an Appalachian ridge.
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, mountain-steady 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

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

Customary

1 pound (lb) = 16 ounces (oz)

Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

TIME

1 minute (min) = 60 seconds (sec) 1 week = 7 days

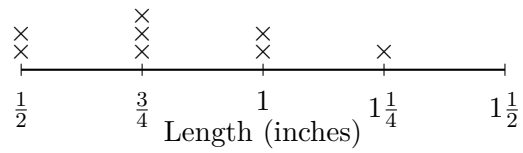
1 hour (hr) = 60 minutes (min) 1 year = 12 months

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



1) The line plot shows ribbon lengths in inches:

Ribbon Lengths



What is the total length of the two ribbons that each measure $\frac{1}{2}$ inch?

- A. 1 inch
- B. $\frac{1}{2}$ inch
- C. $\frac{3}{4}$ inch
- D. 2 inches

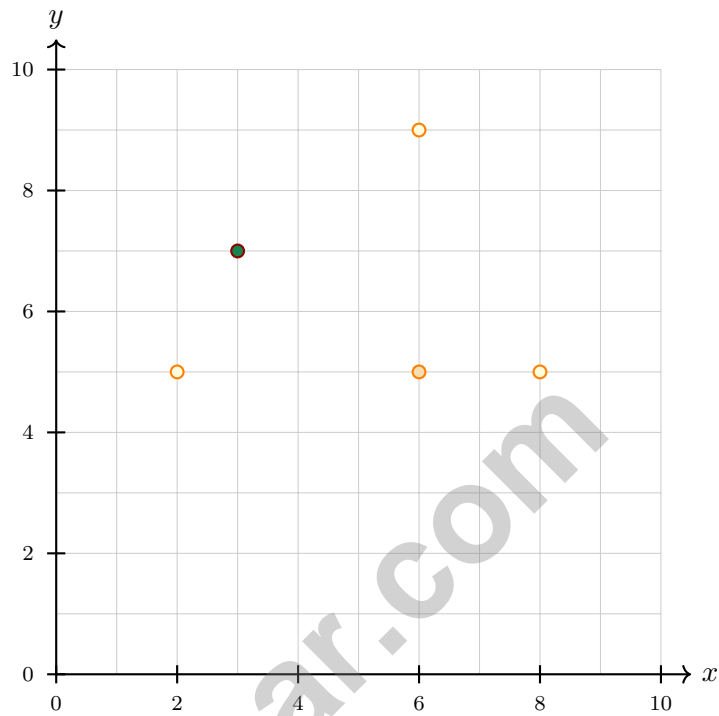
2) Order these decimals from least to greatest:

0.6, 0.06, 0.66, 0.16

- A. 0.06, 0.16, 0.6, 0.66
- B. 0.06, 0.6, 0.16, 0.66
- C. 0.16, 0.06, 0.66, 0.6
- D. 0.66, 0.6, 0.16, 0.06



3) Which of the following points is NOT on a horizontal or vertical line with $(6, 5)$?



A. $(2, 5)$

B. $(6, 9)$

C. $(3, 7)$

D. $(8, 5)$



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TIME

1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



1) Which statement is true?

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

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

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

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

2) What is $10.2 \div 100$?

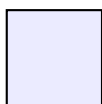
A. 0.102

B. 1.025

C. 102.5

D. 0.012

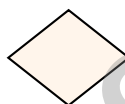
3) Look at the shapes below. Which shape has two pairs of parallel sides, all sides the same length, and no right angles?



Shape A



Shape B



Shape C



Shape D

A. Shape A

B. Shape B

C. Shape C

D. Shape D

4) Order from least to greatest: $100 \times \frac{99}{100}$, $100 \times 1\frac{1}{100}$, 100×1 .

A. $1\frac{1}{100}$, 1 , $\frac{99}{100}$

B. $\frac{99}{100}$, 1 , $1\frac{1}{100}$

C. 1 , $\frac{99}{100}$, $1\frac{1}{100}$

D. All are equal

5) What number belongs in the blank so the equation is true?

$$(\square + 2) \times 3 = 15$$

A. 2

B. 3

C. 5

D. 6



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.** (M.5.19) There are two ribbons at $\frac{1}{2}$ inch. Their total length is $\frac{1}{2} + \frac{1}{2} = 1$ inch.
- Choice A is correct.** (M.5.10) Compare place by place: 0.06 (6 hundredths) < 0.16 (16 hundredths) < 0.6 (60 hundredths) < 0.66 (66 hundredths).
- Choice C is correct.** (M.5.24) Point (3, 7) has neither the same x -coordinate (6) nor the same y -coordinate (5) as (6, 5). The other three points share either an x - or y -coordinate with (6, 5).
- Choice D is correct.** (M.5.6) 67 out of 100 squares shaded represents $\frac{67}{100} = 0.67$.
- Choice D is correct.** (M.5.11) $\frac{1}{5} = \frac{2}{10}$. If $\frac{7}{10} - x = \frac{2}{10}$, then $x = \frac{5}{10}$.
- Choice A is correct.** (M.5.3) Divide by 3 each step: $3 \div 3 = 1$.
- Choice A is correct.** (M.5.5) To find the missing number, divide: $3.7 \div 100 = 0.037$.
- Choice B is correct.** (M.5.11) The correct sum is $\frac{3}{4} + \frac{2}{5} = \frac{15}{20} + \frac{8}{20} = \frac{23}{20}$. Tasha incorrectly added $3 + 2 = 5$ and $4 + 5 = 9$.
- Choice A is correct.** (M.5.22) Model 1: $\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$. Model 2: $\frac{2}{5} \times \frac{2}{3} = \frac{4}{15}$. Since $\frac{3}{10} = \frac{9}{30}$ and $\frac{4}{15} = \frac{8}{30}$, Model 1 is greater.
- Choice B is correct.** (M.5.21) Base area: $6 \times 5 = 30$ square units. Total volume: $30 \times 8 = 240$ cubic units.
- Choice C is correct.** (M.5.5) Both equal 5000: $50 \times 100 = 5000$ and $500 \times 10 = 5000$.
- Choice C is correct.** (M.5.1) Evaluate inside the parentheses first: $15 - 7 = 8$. Then $8 \times 3 = 24$, so choice C has a value of 24.
- Choice A is correct.** (M.5.14) One fourth of 4 units is $4 \times \frac{1}{4} = 1$ unit.
- Choice A is correct.** (M.5.21) $V = 20 \times 15 \times 10 = 300 \times 10 = 3000 \text{ cm}^3$.
- Choice D is correct.** (M.5.21) One box has volume $3 \times 3 \times 2 = 18$ cubic feet. Ten boxes have total volume $18 \times 10 = 180$ cubic feet.
- Choice C is correct.** (M.5.24) Time in hours is on the x -axis, so the x -coordinate (6) represents 6 hours. The temperature was 72 degrees at 6 hours.
- Choice C is correct.** (M.5.19) Lowest: 15°C (1 mark), Highest: 24°C (4 marks). Difference: $24 - 15 = 9^\circ\text{C}$.
- Choices A, B are correct.** (M.5.16) We are counting one-third scoops in 2 cups. A gives the division equation, and B is the related multiplication equation.
- Choice B is correct.** (M.5.8) The model splits 43 into 40 + 3 and splits 20 into 10 + 10. Add the partial products: $400 + 30 + 400 + 30 = 860$.
- Choice A is correct.** (M.5.16) $2\frac{1}{5} = \frac{11}{5}$ and $1\frac{1}{4} = \frac{5}{4}$. Multiply: $\frac{11}{5} \times \frac{5}{4} = \frac{55}{20} = 2\frac{15}{20} = 2\frac{3}{4}$.
- Choice D is correct.** (M.5.21) Each identical 5-by-5 layer has 25 cubes. Three layers total: $25 \times 3 = 75$ unit cubes.
- Choice C is correct.** (M.5.15) New width: $2 \times \frac{3}{2} = 3$ m. New area: $5 \times 3 = 15 \text{ m}^2$. Scaling by $\frac{3}{2}$ increases the area by the same factor.
- Choice D is correct.** (M.5.15) $\frac{3}{4} < 1$, so $5 \times \frac{3}{4}$ is less than 5.
- The correct answer is $3\frac{5}{8}$.** (M.5.11) $1 + 2 = 3$. $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$. Total: $3\frac{5}{8}$.
- Choice B is correct.** (M.5.12) Convert to tenths: $\frac{3}{10} + \frac{1}{5} = \frac{3}{10} + \frac{2}{10} = \frac{5}{10} = \frac{1}{2}$.
- Choice A is correct.** (M.5.11) $10 - 6 = 4$ and $\frac{8}{10} - \frac{4}{10} = \frac{4}{10} = \frac{2}{5}$. Simplified: $4\frac{2}{5}$.
- Choice D is correct.** (M.5.2) The quotient part is $48 \div 6$, and the product part is 2×3 . The phrase says to subtract the product from the quotient.
- Choice D is correct.** (M.5.16) Each whole contains 5 pieces of size $\frac{1}{5}$. With 2 wholes, there are $2 \times 5 = 10$ pieces.
- The correct answer is 2.4.** (M.5.10) Use place-value reasoning to keep the decimal in the correct place. $96 \div 4 = 24$. Place decimal: 2.4. This confirms the answer.
- Choice D is correct.** (M.5.18) Two servings is $\frac{1}{4}$ of 8 servings. The full recipe uses 20 fluid ounces, so $20 \div 4 = 5$ fluid ounces.
- Choice A is correct.** (M.5.10) Only A is true. B should be 6.01, C should be 7.93, and D should be 7.85.



Strong Finish

Hello, Math Star!

* Seven practice tests later, you've built real math confidence. Confidence means you can face a problem, stay calm, and keep working until you understand it. *

◇ **That's what a strong finish looks like:** careful reading, smart strategies, and steady effort from start to end. ◇

Finish Like a Pro

- **Pace yourself:** don't rush the first half.
- **Use scratch work:** write steps clearly.
- **Save time:** leave a few minutes to review.
- **Fix small errors:** check signs, units, and place value.

I'm proud of your effort. Keep that same steady focus on test day.

You can reach me at reza@testinar.com.

Reza Nazari & Jay Daie

Your Math Coaches (Finish Strong)

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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



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YOUR CHILD

Every step of the way.