

7

Washington

Smarter Balanced

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



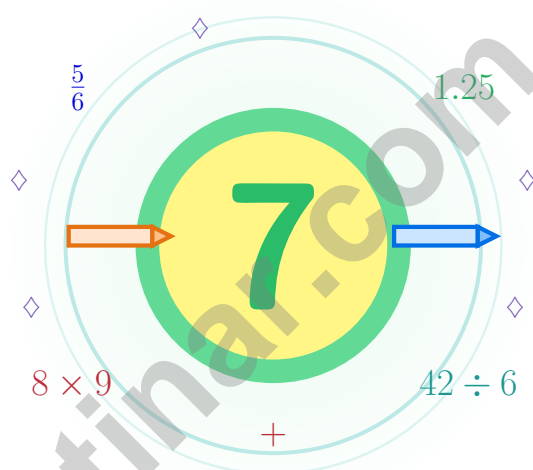
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

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

7 Washington Smarter Balanced 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 Evergreen 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, Washington

A seven-step expedition for curious Grade 5 thinkers

For Every Curious Mind in Washington

This practice book is your steady companion for seven tests, not a place to be perfect. Math is like a Mount Rainier trail – it rises steadily, rewards patience, and never asks you to rush.

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.

Look

Look at the problem
like a detective looks at
a clue.

Test

Test your idea with one
careful step at a time.

Grow

Grow stronger by
reviewing exactly what
tripped you up.

A strong habit for Washington 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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Scan me



Seven Tests, Seven Lessons

A simple routine that turns practice into progress

Step 1: Read

Read the quick review pages first.
Spend a few minutes waking up your memory before the test begins.

Step 2: Try

Try one full test with full attention.
Work in a calm spot and focus on careful thinking before speed.

Step 3: Reflect

Reflect on which skills want more sunlight.
Circle missed questions and notice which topics keep showing up.

Step 4: Lift

Lift those skills before the next test.
Read the explanation, repair the work, and bring that lesson into the next test.

A Good 7-Week Washington Rhythm

Week 1	Take Test 1 like the first switchback up Mount Rainier.
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, evergreen 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 $A = \frac{1}{2} \times b \times h$

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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)

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CAPACITY

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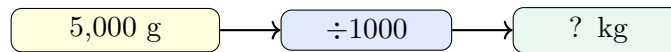
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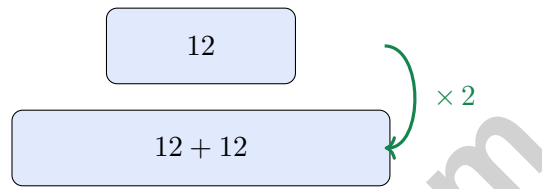
1 day = 24 hours (hr) 1 year = 52 weeks



- 1) A bakery has 5,000 grams of flour. How many kilograms is this?



- A. 0.5 kg C. 50 kg
 B. 500 kg D. 5 kg
- 2) The arrows show scaling. Which comparison is true?



- A. $12 > 12 + 12$ C. $12 + 12 = 12$
 B. Cannot tell D. $12 + 12 > 12$
- 3) An error-analysis item: Chen added $\frac{2}{3} + \frac{1}{5}$ and got $\frac{3}{8}$. Is he correct?
- A. Yes, $\frac{3}{8}$ is correct. C. No, the correct answer is $\frac{2}{8}$.
 B. No, the correct answer is $\frac{8}{15}$. D. No, the correct answer is $\frac{13}{15}$.
- 4) Convert: 6 gallons = ? quarts.

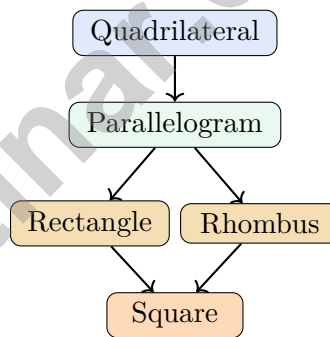
Record your answer in the space provided.



5) Find: $\frac{4}{5} \times 15$.

Record your answer in the space provided.

- 6) On a time-temperature graph, the x-axis shows time in hours and the y-axis shows temperature in degrees Celsius. What does the point (9, 15) mean?
- A. At hour 9, the temperature is 15 degrees Celsius.
 - B. At hour 15, the temperature is 9 degrees Celsius.
 - C. The temperature changes from 9 degrees to 15 degrees.
 - D. The graph has 9 points and 15 labels.



7)

Which statement is supported by the hierarchy?

- A. Every rectangle is a rhombus.
- B. A square is both a rectangle and a rhombus.
- C. Every rhombus is a square.
- D. Every quadrilateral is a parallelogram.



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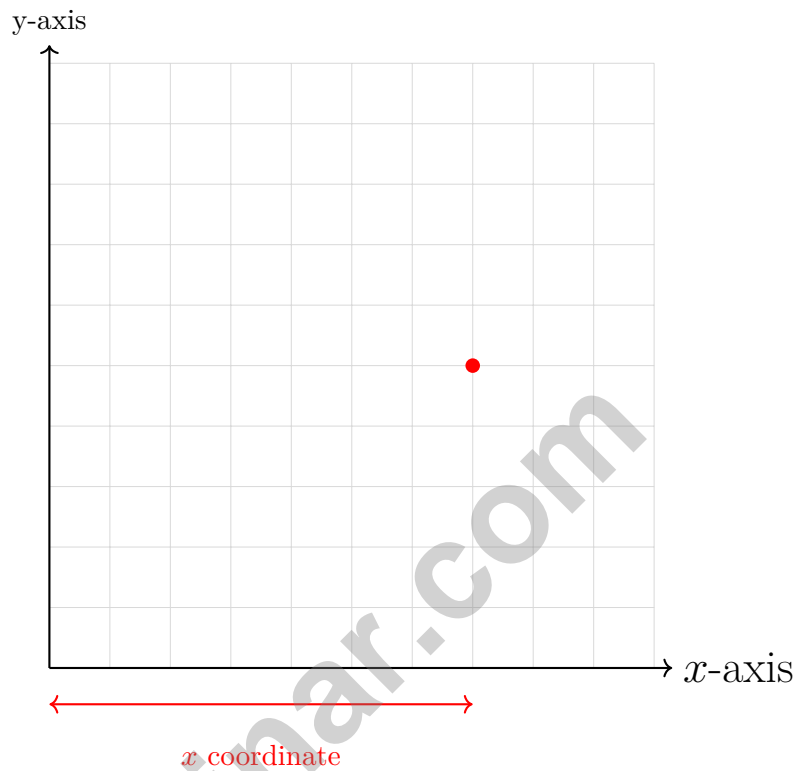
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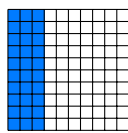


1) In the ordered pair (x, y) , what does the letter x represent?

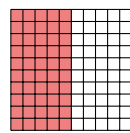


- | | |
|---|--|
| <input type="checkbox"/> A. How far up | <input type="checkbox"/> C. The origin |
| <input type="checkbox"/> B. How far right | <input type="checkbox"/> D. The y-axis |

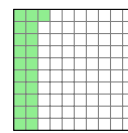
2) Model three decimals using grids:



Grid 1: 0.3



Grid 2: 0.5



Grid 3: 0.21

Order these from least to greatest.

- | | |
|--|--|
| <input type="checkbox"/> A. 0.21, 0.3, 0.5 | <input type="checkbox"/> C. 0.5, 0.3, 0.21 |
| <input type="checkbox"/> B. 0.3, 0.5, 0.21 | <input type="checkbox"/> D. 0.21, 0.5, 0.3 |



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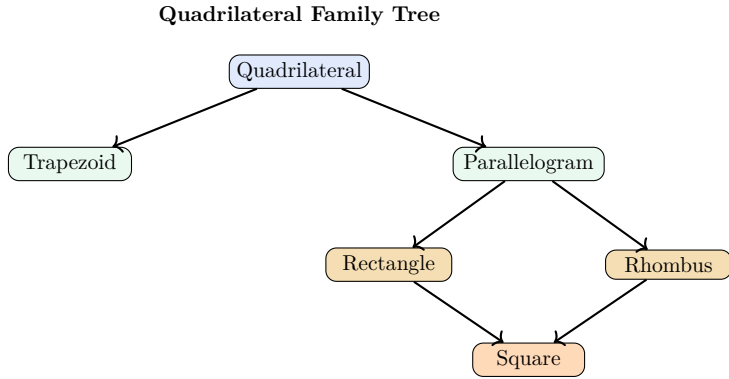
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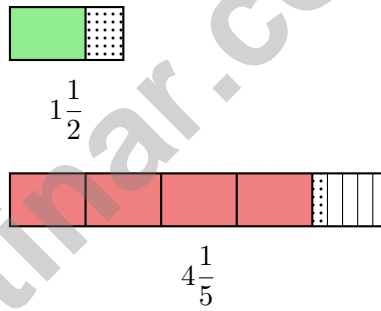




1)

Looking at the family tree, which statement is FALSE?

- A. Every square is a rectangle.
- B. Every rectangle is a square.
- C. Every rhombus is a parallelogram.
- D. Every square is a parallelogram.



2)

Add: $1\frac{1}{2} + 4\frac{1}{5}$ (Unlike Denominators)

- A. $5\frac{3}{7}$
- B. $5\frac{7}{10}$
- C. $6\frac{1}{10}$
- D. $5\frac{1}{10}$

3) What is the least common denominator for $\frac{5}{6}$ and $\frac{1}{9}$?

- A. 54
- B. 15
- C. 18
- D. 6



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1) Using properties of operations, which expression is equal to 3.5×4 ?

A. $(3 \times 4) + (0.5 \times 4)$

C. $3.5 + 4$

B. $(3 + 4) \times 0.5$

D. $(3.5 + 0.5) \times 3$

2) Which statement is true?

A. $5.2 \div 100 = 0.052$

C. $5.2 \div 10 = 52$

B. $5.2 \div 10 = 5.2$

D. $5.2 \div 10 = 0.052$

3) Divide: $912 \div 19$

A. 45

C. 50

B. 48

D. 52

4) Maria wants to find an equivalent fraction to $\frac{5}{10}$. Which fraction is correct?

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

C. $\frac{10}{25}$

B. $\frac{2}{5}$

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

5) Evaluate the expression: $\{(9 + 3) \times 2\} - 4 \div 5$

Record your answer in the space provided.



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.MD.A.1) 1 kilogram = 1,000 grams. Divide: $5000 \div 1000 = 5$ kg.
- 2) **Choice D is correct.** (5.OA.A.2) The expression $12 + 12$ has two copies of 12. Two copies are greater than one copy, so $12 + 12 > 12$.
- 3) **Choice D is correct.** (5.NF.A.1) $\text{LCM}(3,5) = 15$. $\frac{2}{3} = \frac{10}{15}$ and $\frac{1}{5} = \frac{3}{15}$. $\frac{10}{15} + \frac{3}{15} = \frac{13}{15}$. Chen incorrectly added numerators and denominators separately.
- 4) **The correct answer is 24.** (5.MD.A.1) $6 \times 4 = 24$ quarts. Each gallon has 4 quarts, so 6 gallons has six groups of 4 quarts.
- 5) **The correct answer is 12.** (5.NF.B.4) You can multiply first: $\frac{4}{5} \times 15 = \frac{60}{5} = 12$. You can also think of $\frac{1}{5}$ of 15 as 3, so $\frac{4}{5}$ of 15 is 4 groups of 3, or 12.
- 6) **Choice A is correct.** (5.G.A.2) The x-coordinate is the time in hours, 9, and the y-coordinate is the temperature, 15 degrees Celsius.
- 7) **Choice B is correct.** (5.G.B.4) The hierarchy shows Square under both Rectangle and Rhombus, so a square has the properties of both. The other statements reverse or overstate the hierarchy.
- 8) **Choice B is correct.** (5.NBT.B.7) Subtract the scene time from the total time: $2.45 - 1.25 = 1.20$. The rest of the movie lasts 1.20 hours.
- 9) **Choice A is correct.** (5.MD.B.2) Add the unique costs: $\$1 + \$2 + \$3 + \$4 + \$5 = \15 .
- 10) **Choice D is correct.** (5.NBT.A.2) To find the missing factor: $54000 \div 1000 = 54$.
- 11) **Choice B is correct.** (5.OA.A.1) Substitute the values into the expression: $A \times (B + C) = 3 \times (7 + 5)$. The parentheses give 12, and $3 \times 12 = 36$.
- 12) **Choice C is correct.** (5.G.A.1) The origin is located at $(0, 0)$, where both coordinates are zero.
- 13) **Choice A is correct.** (5.NF.A.2) 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.
- 14) **The correct answer is $3\frac{7}{8}$.** (5.NF.A.1) Wholes: $2 + 1 = 3$. Fractions: $\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$. Total: $3\frac{7}{8}$.
- 15) **Choice A is correct.** (5.NF.B.7c) $\frac{1}{2} \div 7 = \frac{1}{2} \times \frac{1}{7} = \frac{1}{14}$.
- 16) **Choice C is correct.** (5.NF.B.7c) The unit fraction is the amount being shared, so divide $\frac{1}{3}$ by 4. The equation is $\frac{1}{3} \div 4 = n$.
- 17) **Choice A is correct.** (5.MD.C.5a) $V = 10 \times 4 \times 7 = 280$ ft³.
- 18) **Choice A is correct.** (5.MD.C.5) Pens cost: $4 \times 2.25 = 9.00$ dollars. Pencils cost: $3 \times 1.75 = 5.25$ dollars. Total: $9.00 + 5.25 = 14.25$ dollars.
- 19) **Choices A, B are correct.** (5.OA.A.2) A and B both start with twice 9 and then take away 7. C puts the 7 first, and D subtracts before doubling, so those do not match the words.
- 20) **Choice C is correct.** (5.NBT.A.2) Dividing by a power of 10 shifts the value to a smaller place. $3,000 \div 10 = 300$ napkins per table. This confirms the answer.
- 21) **Choice C is correct.** (5.NBT.A.2) $4.5 \times 100 = 450$ (move decimal 2 places right).
- 22) **Choice B is correct.** (5.NF.A.2) $\frac{1 \times 5}{6 \times 5} = \frac{5}{30}$.
- 23) **The correct answer is $\frac{1}{16}$.** (5.NF.B.7c) Half of one eighth is one sixteenth, so each piece is $\frac{1}{16}$ of the whole.
- 24) **Choice A is correct.** (5.OA.A.1) Begin with the innermost operation: $2 \times 3 = 6$. That makes the braces $\{4 + 6\} = 10$, so the full expression is $30 - 10 = 20$.
- 25) **Choice D is correct.** (5.NF.A.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 $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$.
- 26) **Choice B is correct.** (5.NBT.B.7) Check by multiplying: $0.7 \times 5 = 3.5$. The quotient is reasonable because it checks with the inverse operation.
- 27) **Choice D is correct.** (5.G.B.4) Rectangles include the rectangle-only region and the intersection: $6 + 3 = 9$.
- 28) **The correct answer is 12.** (5.NBT.B.6) Use division: $216 \div 18 = 12$. Each box has 12 seed packets.
- 29) **Choice B is correct.** (5.NF.A.1) $6\frac{2}{3} - 2\frac{1}{3} = 4\frac{1}{3}$ cups.



Dear Student,

★ When you completed seven practice tests, you proved you can do hard things. The secret was not magic—it was your step-by-step work. ★

◇ **Professional tip:** big problems become small when you break them into parts. One good step is better than ten rushed steps. ◇

My 4-Step Plan

- **Understand:** what is the question asking?
- **Plan:** what operation or model should I use?
- **Solve:** show steps neatly.
- **Check:** estimate or substitute to see if it makes sense.

Keep trusting your process. You built it through seven tests, and it will support you on test day. Email me at reza@testinar.com if you want to share how you improved.

Reza Nazari & Jay Daie

Your Math Coaches (Step by Step)

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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.

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PRACTICE
PREPARE
SUCCEED



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Every step of the way.