

5 FULL-LENGTH Washington Smarter Balanced

GRADE 5 MATH

★ PRACTICE TESTS ★



5 FULL-LENGTH
PRACTICE TESTS



COMPLETE
STANDARDS
REVIEW



SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!

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



$$12 \times 3 = 36$$



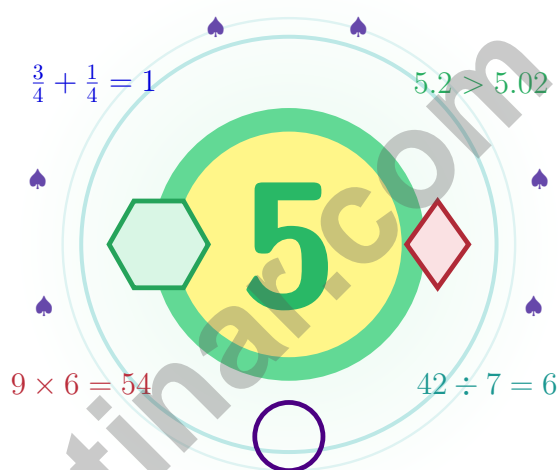
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Washington Smarter Balanced Grade 5 Math Practice Tests

Five full tests woven into one calm, steady quest



Five full tests, a friendly quick review, smart strategy pages, and student-tested support that turn Grade 5 practice in The Evergreen State into a steady quest of real growth.

Jay Daie and Reza Nazari



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Washington, Your Five-Test Quest Begins

Five full tests woven into one calm, steady quest

Dear Washington Math Quest Crew

This book is your practice zone, not a place to be perfect. Each of the five tests gives you a chance to notice clues, choose a strategy, check your thinking, and come back stronger for the next round. Math is like a Mount Rainier trail – it rises steadily, rewards patience, and never asks you to rush.

Some questions will feel easy right away. Some will make you slow down, draw, estimate, or retry. That is excellent news. It means your math brain is doing real work.

Notice

Read closely and spot what the problem is really asking.

Try

Pick a plan and work through it one step at a time.

Level Up

Use every correction like a clue for what to practice next.

A strong quest habit for Washington: slow down, write neatly, estimate before you solve, and keep going even when a problem looks tricky at first. That is exactly how confident math students are built.

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Your Five-Step Quest Plan

A simple routine that turns five tests into real growth

Step 1: Power Up

Warm up with the quick review.
Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Take the Checkpoint

Take one full practice test.
Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Decode Mistakes

Check your answers honestly.
Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Bring the Lesson Forward

Study, fix, and retry.
Read the explanation, repair the work, and carry that lesson into the next test.

A Five-Week Washington Quest Map

Week	Mission Focus
Week 1	Take Test 1 like the first switchback up Mount Rainier.
Week 2	Take Test 2 and notice one habit that grew steadier.
Week 3	Take Test 3 and lift fractions, decimals, and conversions.
Week 4	Take Test 4 and slow down on multi-step problems.
Week 5	Take Test 5 with calm, careful, 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 $A = \frac{1}{2} \times b \times h$

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

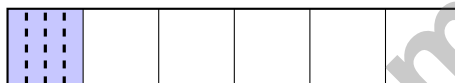
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1 day = 24 hours (hr) 1 year = 52 weeks



- 5) Error analysis: A student computes $6 \times \frac{1}{3}$ and writes $\frac{6}{3} = 2$. Is this correct?
- A. Yes, the answer is 2.
- B. No, the student added instead of multiplying.
- C. No, the student treated the whole number as a denominator.
- D. No, the student multiplied the denominator by 6.
- 6) The model shows $\frac{1}{6}$ of a whole split into 4 equal parts. What fraction of the whole is each small part?

$\frac{1}{6}$ split into 4



1 whole split into 6 equal parts

- A. $\frac{1}{24}$
- B. $\frac{1}{6}$
- C. $\frac{1}{4}$
- D. $\frac{1}{10}$
- 7) An error was made in this pattern. Find it.
Points plotted: (1, 4), (2, 8), (3, 11), (4, 16)
- A. (3, 11) should be (3, 12)
- B. (2, 8) is correct
- C. (4, 16) should be (4, 15)
- D. (1, 4) should be (1, 5)
- 8) Find the product: 3.4×100 .

Record your answer in the space provided.



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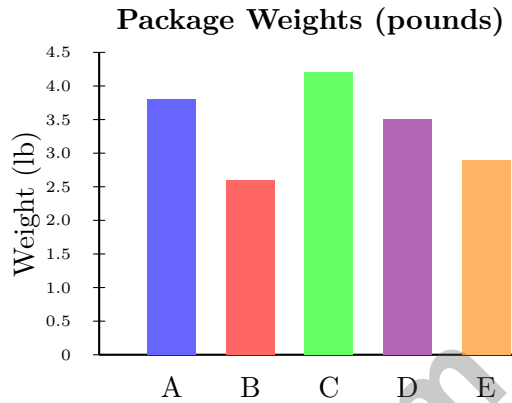
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- 1) The chart shows the weights of different packages at a shipping center. What is the total weight of all packages?



- A. 16.8 pounds
- B. 17.0 pounds
- C. 17.2 pounds
- D. 17.4 pounds
- 2) What is $8,700 \div 1,000$?
- A. 8.7
- B. 87
- C. 870
- D. 87,000
- 3) Compare: $(47 + 13) - 10$ $47 + (13 - 10)$
- A. $>$
- B. $<$
- C. $=$
- D. Cannot tell
- 4) Which quotient will be less than 10?
- A. $100 \div 10$
- B. $8.5 \div 0.5$
- C. $8.5 \div 2$
- D. $45 \div 4$



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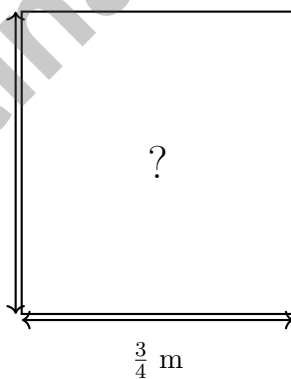
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- 1) A tub holds 60 gallons. Water drains at 5 gallons per minute. Which expression gives gallons remaining after 8 minutes?
- A. $60 - 5 \times 8$ C. $(60 - 5) \times 8$
 B. $5 \times 8 - 60$ D. $60 \div 5 - 8$
- 2) Use the formula $V = l \times w \times h$ to find the volume of a rectangular prism with length 5 ft, width 3 ft, and height 4 ft.
- A. 60 ft^3 C. 35 ft^3
 B. 40 ft^3 D. 12 ft^3
- 3) A point is 4 units to the right of the origin and above the x-axis. Which ordered pair could show the point?
- A. (4, 0) C. (4, 3)
 B. (3, 4) D. (0, 4)
- 4) A small tile is $\frac{3}{4}$ meter by $\frac{5}{6}$ meter. What is the area? Give the answer in simplest form.



- A. $\frac{15}{10} \text{ m}^2$ C. $\frac{8}{10} \text{ m}^2$
 B. 1 m^2 D. $\frac{5}{8} \text{ m}^2$



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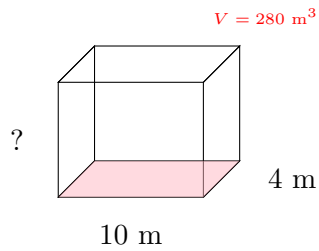
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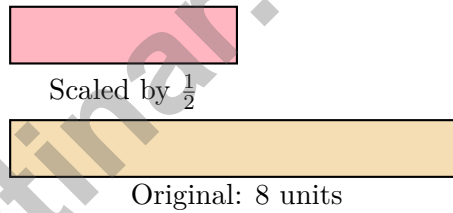
1)

Find the missing dimension (height).

- | | |
|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> A. 7 m | <input type="checkbox"/> C. 294 m |
| <input type="checkbox"/> B. 266 m | <input type="checkbox"/> D. 70 m |

2) A phone bill shows \$12.50 per month. What is the total for 100 months?

- | | |
|-------------------------------------|--------------------------------------|
| <input type="checkbox"/> A. \$125 | <input type="checkbox"/> C. \$125000 |
| <input type="checkbox"/> B. \$12500 | <input type="checkbox"/> D. \$1250 |



3)

If the original length is 8 units and it is scaled by $\frac{1}{2}$, what is the new length?

- | | |
|-------------------------------------|--------------------------------------|
| <input type="checkbox"/> A. 2 units | <input type="checkbox"/> C. 6 units |
| <input type="checkbox"/> B. 4 units | <input type="checkbox"/> D. 12 units |



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.NF.B.7c) $\frac{1}{4} \div 3 = \frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$.
- Choice D is correct.** (5.G.A.2) The first coordinate, 8, matches the x-axis label: laps completed. The second coordinate, 16, matches the y-axis label: minutes elapsed. So the point means minutes elapsed is 16 when laps completed is 8.
- Choice A is correct.** (5.G.B.3) Figure A is a triangle with no parallel sides and no right angle. Figures B, C, and D do not match both conditions.
- Choice C is correct.** (5.MD.B.2) There are three throws at $25\frac{1}{2}$ feet, for a total of $76\frac{1}{2}$ feet. There are two throws at $24\frac{1}{2}$ feet, for a total of 49 feet. The difference is $76\frac{1}{2} - 49 = 27\frac{1}{2}$ feet.
- Choice A is correct.** (5.NF.B.4) This is correct: $6 \times \frac{1}{3} = \frac{6}{3} = 2$. The student correctly multiplied the numerator by 6 and simplified.
- Choice A is correct.** (5.NF.B.7c) Start with one unit fraction, $\frac{1}{6}$, and share it into 4 equal parts. Each part is $\frac{1}{6} \div 4 = \frac{1}{24}$ of the whole.
- Choice A is correct.** (5.G.A.2) x : 1, 2, 3, 4. y : 4, 8, 12, 16. The third point should be (3, 12), not (3, 11).
- The correct answer is 340.** (5.NBT.A.2) Multiplying by 100 moves the decimal point two places to the right: $3.4 \rightarrow 340$.
- Choice A is correct.** (5.OA.A.2) Find each cost separately: 3 toys cost 3×8 , and 2 puzzles cost 2×14 . Add those products for the total cost.
- Choice D is correct.** (5.MD.A.1) Divide grams by 1,000: $1500 \div 1000 = 1.5$ kg.
- Choice B is correct.** (5.NBT.A.2) When multiplying by 1000, append three zeros: $3 \times 1000 = 3000$.
- Choice A is correct.** (5.NBT.A.2) Write each value in standard form: 2,000,000, 2,200,000, and 2,500,000. Then order them from least to greatest.
- Choice A is correct.** (5.G.B.4) A rectangle is defined by having all right angles and opposite sides equal. A square must have all right angles AND all four sides equal. Not all rectangles have all equal sides.
- Choice B is correct.** (5.G.B.4) The diagram shows a right angle (small square) and two equal sides (tick marks), making it a right isosceles triangle.
- Choice A is correct.** (5.NF.B.5b) $\frac{1}{7} \times \frac{3}{4} = \frac{1 \times 3}{7 \times 4} = \frac{3}{28}$.
- The correct answer is 24.** (5.NF.A.2) The least common multiple of 12 and 8 is 24.
- Choice C is correct.** (5.OA.A.1) First solve the parentheses: $7 + 3 = 10$. Then multiply, $6 \times 10 = 60$, and subtract 20 to get 40.
- Choice A is correct.** (5.MD.C.5) Use the rectangular-prism volume formula: $10 \times 3 \times 4 = 120$. So the volume is 120 cubic centimeters.
- Choices A, B are correct.** (5.NBT.A.1) In 0.666, the left 6 is in the tenths place, the middle 6 is in the hundredths place, and the right 6 is in the thousandths place. A tenth is 10 times a hundredth, and a hundredth is 10 times a thousandth, so A and B are true.
- Choice D is correct.** (5.MD.C.3b) A cube that is 1 meter on each edge is 100 centimeters on each edge. It would have 100 layers, with $100 \times 100 = 10,000$ cubic centimeters in each layer. So $10,000 \times 100 = 1,000,000$ cubic centimeters.
- Choice B is correct.** (5.OA.B.3) Pattern T is twice Pattern U: $2 \times 2 = 4$, $4 \times 2 = 8$, $6 \times 2 = 12$, etc.
- Choice C is correct.** (5.G.A.1) To find the farthest right point, look for the largest x-coordinate. Point J at (9, 8) has x-coordinate 9, which is the largest.
- Choice C is correct.** (5.MD.C.5) Choose the operation from the story, then keep the unit with the answer. Divide: $480 \div 30 = 16$ shelves. This confirms the answer.
- Choice B is correct.** (5.G.B.4) A rectangle has 4 sides and 4 right angles, so it has both properties.
- Choice B is correct.** (5.MD.C.5a) The known width and height make groups of $5 \times 9 = 45$ cubic inches. Since $180 \div 45 = 4$, the length is 4 inches.
- Choice A is correct.** (5.NF.B.5b) $\frac{1}{3} \times 3\frac{1}{3} = \frac{1}{3} \times \frac{10}{3} = \frac{10}{9} = 1\frac{1}{9}$ cups.
- Choice C is correct.** (5.NF.A.2) $\frac{5}{12} \approx \frac{1}{2}$ and $\frac{9}{17} \approx \frac{1}{2}$. So $\frac{5}{12} + \frac{9}{17} \approx \frac{1}{2} + \frac{1}{2} = 1$.



Hello, Mathematical Explorer!

★ What an extraordinary expedition! You've charted your way through five comprehensive practice tests, discovering new mathematical territories and mastering challenging concepts along the way! Like the great explorers who mapped unknown lands, you've navigated through complex problems with determination and courage. Each test was a new frontier, and you conquered them all! ★

◇ **Here's what successful explorers understand:** the journey teaches you more than the destination. Through rough terrain and smooth paths, you've learned how to adapt your approach, use your tools effectively, and never give up when the path gets steep. These five tests have equipped you with navigation skills that will guide you successfully through test day and any mathematical challenge ahead!

◇

Explorer's Achievement Map

- **Territory Covered:** You've explored every major mathematical concept thoroughly!
- **Navigation Skills:** You can find your way through any problem with multiple solution paths!
- **Equipment Mastered:** You know exactly which strategies to use in different situations!
- **Expedition Ready:** You're fully prepared for the ultimate test day adventure!

Important explorer wisdom: experienced adventurers always review their maps before embarking on important journeys. Take a few moments before test day to mentally review your successful strategies. Visualize yourself confidently tackling each type of problem. You've already proven you can handle the expedition!

Want to share discoveries from your mathematical expedition? Send your adventure stories to reza@testinar.com. I keep a logbook of remarkable student journeys!

Reza Nazari & Jay Daie

Your Math Teacher and Test-Day Coach

5 FULL-LENGTH TESTS. STRONG SKILLS. BRIGHTER RESULTS.



Build confidence and master math with **5 full-length** practice tests designed to reflect the real test experience. This book provides the practice, review, and support students need to succeed in Grade 5 and beyond!

WHAT'S INSIDE:



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SKILL PRACTICE

Strengthen key math skills through a wide variety of practice questions.



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Step-by-step explanations for every question to help students learn and improve.



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with consistent
practice



Improve Accuracy
and problem-
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