

10 COMPLETE Washington

Smarter Balanced

GRADE 5 MATH PRACTICE TESTS

Standards-Based Review with
Mixed Practice and Detailed Answer Key



10 Complete Practice Tests

Build confidence and test readiness



Standards-Based Review

Covers key Grade 5 math standards



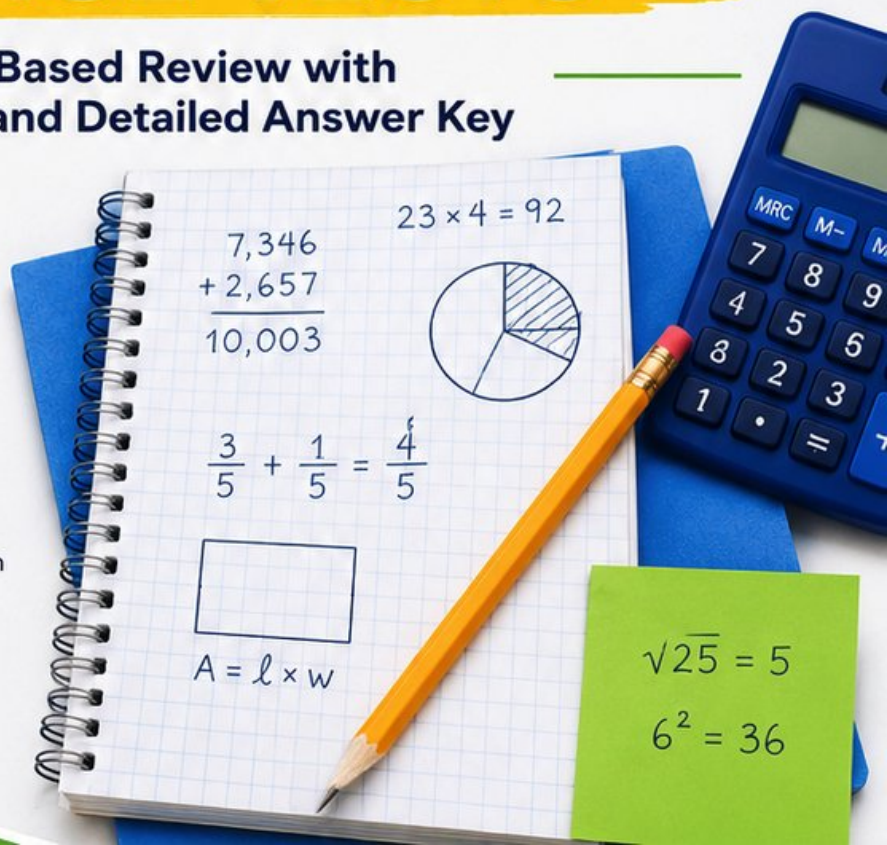
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

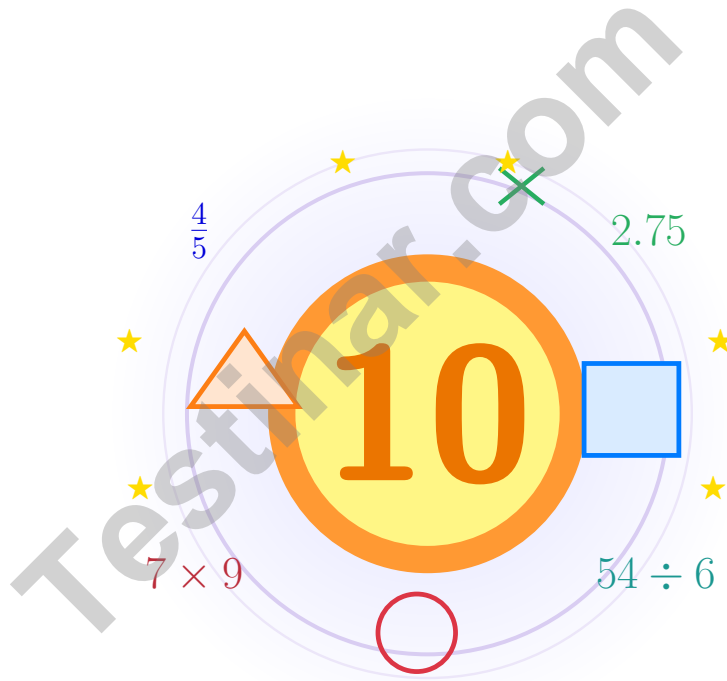
Step-by-step explanations for every question



PREPARE.
PRACTICE.
SUCCEED!

10 Washington Smarter Balanced Grade 5 Math Practice Tests

Bright review, thoughtful practice, and steady confidence for Grade 5



Ten full tests, a focused quick review, and student-friendly support that keeps practice clear and encouraging.

Jay Daie and Reza Nazari

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Welcome!

This book is a place to practice bravely and think clearly

Dear Grade 5 Mathematician

This book gives you ten chances to read carefully, solve thoughtfully, and build steady math confidence. Some problems will feel friendly right away. Some will take more patience. Both kinds help you grow.

The goal is not to feel perfect before you begin. The goal is to practice honest effort, learn from corrections, and notice how much stronger your thinking becomes over time.

Read

Slow down and understand the task.

Solve

Show clear steps and good choices.

Learn

Use mistakes as clues for what comes next.

A strong habit from the start: keep your work neat, estimate when it helps, write units carefully, and do not let one hard problem decide your mood for the whole page.



Scan me

How to Use This Book

A simple routine that turns practice into real progress

Step 1

Warm up with the quick review.

Spend a few minutes refreshing the ideas before the test begins.

Step 2

Take one full practice test.

Work in a calm spot and aim for careful thinking before speed.

Step 3

Check your work honestly.

Circle missed questions and notice which skills need another look.

Step 4

Fix and reflect.

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	Metric
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
1 yard (yd) = 3 feet (ft)	1 centimeter (cm) = 10 millimeters (mm)
1 yard (yd) = 36 inches (in.)	1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary	Metric
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (L) = 1,000 milliliters (mL)
1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	

WEIGHT AND MASS

Customary	Metric
1 pound (lb) = 16 ounces (oz)	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) Align the decimals and find: $12.3 - 4.56$.

A. 7.74

C. 7.84

B. 7.64

D. 8.24

2) A composite shipping stack is made from two non-overlapping rectangular prisms. Prism A is 6 centimeters long, 2 centimeters wide, and 6 centimeters tall. Prism B is 3 centimeters long, 3 centimeters wide, and 2 centimeters tall. What is the total volume?

A. 90 cubic centimeters

C. 18 cubic centimeters

B. 72 cubic centimeters

D. 102 cubic centimeters

3) Evaluate: $24 - 2 \times (3 + 5)$

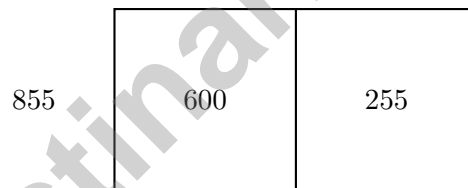
A. 8

C. 26

B. 16

D. 44

4) Complete the area-model division for $855 \div 15$:



Divisor: 15

What is the quotient?

A. 55

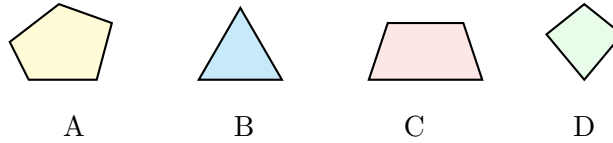
C. 59

B. 57

D. 61



5) Which shape is an example of a regular polygon?

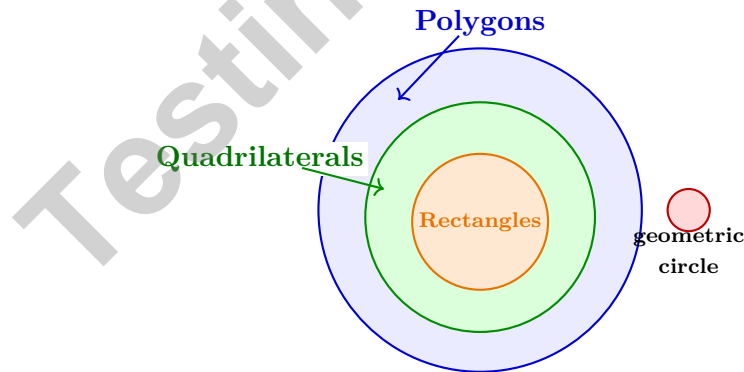


- | | |
|-------------------------------|-------------------------------|
| <input type="checkbox"/> A. A | <input type="checkbox"/> C. C |
| <input type="checkbox"/> B. B | <input type="checkbox"/> D. D |

6) A store sells notebooks for \$2.45 each. How much do 12 notebooks cost?

Record your answer in the space provided.

7) A Venn diagram has a large circle for polygons. Inside it is a circle for quadrilaterals, and inside that is a circle for rectangles. Where should a geometric circle be placed?



- | | |
|---|--|
| <input type="checkbox"/> A. Outside all three circles | <input type="checkbox"/> C. Inside quadrilaterals only |
| <input type="checkbox"/> B. Inside rectangles | <input type="checkbox"/> D. Inside polygons only |



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

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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)

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TIME

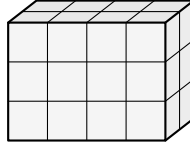
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) An error: A student counted only 12 unit cubes in a rectangular prism because they counted the front face only (4 by 3). The prism is actually 2 units deep. What is the correct volume?



- A. 12 unit cubes C. 36 unit cubes
 B. 14 unit cubes D. 24 unit cubes
- 2) Estimate: $7.9 \div 2.1$. Which is the best estimate?
- A. 2 C. 6
 B. 4 D. 8
- 3) A triangle has side lengths 6 cm, 6 cm, and 6 cm. Which classification describes the triangle based on its sides?
- A. Equilateral C. Scalene
 B. Isosceles only D. Right
- 4) For the points (1, 2), (2, 4), (3, 6), each Y value is how many times X?

Record your answer in the space provided.



- 38) On a graph of distance traveled, the x-axis shows hours and the y-axis shows miles. A point is plotted at (4, 20). How many miles does the point show?

Record your answer in the space provided.

- 39) Kelly wrote $5 + (6 \times 8)$. Which sentence best describes her expression?

- A. Add 5 to the product of 6 and 8
 B. Multiply 5 and 6, then add 8
 C. Subtract 5 from 6×8
 D. Divide 6×8 by 5

- 40) Which decimal is equivalent to $\frac{8}{10}$?

- A. 0.08
 B. 0.8
 C. 8.0
 D. 0.008

End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



Grade 5 Mathematics

10

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



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.NBT.B.7)** Write $12.30 - 4.56 = 7.74$. Annex zero to match place values.
- Choice A is correct.** **(5.MD.C.5c)** Find each part first: Prism A is $6 \times 2 \times 6 = 72$ cubic centimeters, and Prism B is $3 \times 3 \times 2 = 18$ cubic centimeters. Because the parts do not overlap, add them: $72 + 18 = 90$ cubic centimeters.
- Choice A is correct.** **(5.OA.A.1)** First simplify inside the parentheses: $3 + 5 = 8$. Then multiply, $2 \times 8 = 16$, and subtract from 24 to get 8.
- Choice B is correct.** **(5.NBT.B.6)** Area model: $600 \div 15 = 40$ and $255 \div 15 = 17$. So $40 + 17 = 57$.
- Choice B is correct.** **(5.G.B.3)** Shape B is an equilateral triangle with all three sides equal and all three angles equal (60° each), making it regular.
- The correct answer is 29.40.** **(5.MD.C.5)** Choose the operation from the story, then keep the unit with the answer. $2.45 \times 12 = 29.40$. This confirms the answer.
- Choice A is correct.** **(5.G.B.4)** A geometric circle has a curved boundary, so it is not a polygon, a quadrilateral, or a rectangle.
- Choice D is correct.** **(5.NBT.A.3a)** 0.309 has 3 in tenths and 9 in thousandths. Since there are 0 hundredths, the expanded form can omit the hundredths term: $\frac{3}{10} + \frac{9}{1000} = 0.309$.
- Choice C is correct.** **(5.NBT.B.7)** $2.8 \div 0.7 = 4$. Dividing by 0.7 is equivalent to dividing by $\frac{7}{10}$: $2.8 \div 0.7 = 4$.
- Choice C is correct.** **(5.OA.B.3)** Term 1: 1. Term 2: $1 \times 10 - 2 = 8$. Term 3: $8 \times 10 - 2 = 78$.
- Choice B is correct.** **(5.NF.B.5b)** Method B correctly converts both mixed numbers: $3\frac{1}{2} = \frac{7}{2}$ and $2\frac{1}{4} = \frac{9}{4}$. Then $\frac{7}{2} \times \frac{9}{4} = \frac{63}{8} = 7\frac{7}{8}$.
- Choice A is correct.** **(5.NBT.A.4)** The tenths digit is 6. The hundredths digit is 4. Since $4 < 5$, keep tenths as 6. So 8.642 rounds to 8.6 km.
- Choice C is correct.** **(5.MD.B.2)** At 70: 2 marks, At 80: 3 marks, At 90: 3 marks. Total between 70 and 90: $2 + 3 + 3 = 8$ students.
- Choice A is correct.** **(5.NF.A.2)** Removed: $\frac{1}{5} + \frac{2}{7} = \frac{7}{35} + \frac{10}{35} = \frac{17}{35}$. Remaining: $1 - \frac{17}{35} = \frac{18}{35}$ cup.
- Choice A is correct.** **(5.NF.A.1)** Borrow 1: $1\frac{5}{4} - 1\frac{3}{4} = \frac{2}{4} = \frac{1}{2}$ hr.
- Choice A is correct.** **(5.NF.B.4b)** $\frac{4}{7} \times \frac{1}{2} = \frac{4}{14}$. The overlap has 4 squares out of 14 total.
- Choice D is correct.** **(5.MD.A.1)** Since 1 yard = 3 feet and 1 foot = 12 inches, 1 yard = 36 inches.
- Choice A is correct.** **(5.NF.A.2)** $\frac{2}{3} = \frac{4}{6}$. $\frac{4}{6} - \frac{1}{6} = \frac{3}{6}$, which simplifies to $\frac{1}{2}$.
- Choice A is correct.** **(5.NF.B.6)** Multiply the fractions: $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$. Therefore, Maria needs $\frac{1}{2}$ cup of flour.
- Choice C is correct.** **(5.MD.C.5a)** One box: $7 \times 6 \times 4 = 168$ cubic inches. Three boxes: $168 \times 3 = 504$ cubic inches.
- Choice B is correct.** **(5.G.A.1)** In an ordered pair (x, y) , the second number is the y-coordinate. For $(4, 9)$, the y-coordinate is 9.
- Choices A, B are correct.** **(5.NF.B.5a)** Multiplying by a factor less than 1 makes a number smaller, while multiplying by a factor greater than 1 makes it larger. Choices C and D reverse that scaling rule.
- Choice C is correct.** **(5.OA.A.1)** Start with the inner parentheses: $4 - 1 = 3$. Then the bracket is $5 \times 3 = 15$, and the braces become $2 + 15 = 17$.
- Choice C is correct.** **(5.MD.C.3b)** Original: $4 \times 3 \times 4 = 48$. Remove one layer: height becomes 3. New volume: $4 \times 3 \times 3 = 36$ cubic units.
- Choice D is correct.** **(5.G.A.2)** Position 3: Row 1 value is 3, Row 2 value is 30. Pair is $(3, 30)$.
- Choice C is correct.** **(5.G.B.4)** All three angles (89° , 45° , 46°) are less than 90 degrees, making this an acute triangle. Since all side lengths are different, it is scalene.
- Choice C is correct.** **(5.NBT.A.2)** Each division by 10 reduces the result by a factor of 10. $5,000 \div 1,000 = 5$.
- Choice C is correct.** **(5.NBT.A.2)** Multiplying by 1,000 means multiplying by 10^3 , so the decimal moves three places right. That makes statement C true.
- The correct answer is 5000.** **(5.MD.A.1)** $5 \times 1,000 = 5,000$ m. Each kilometer has 1,000 meters, so 5 kilometers has five groups of 1,000 meters.



Notes From Your Math Architect

Dear Builder of Big Ideas,

◇ Across 10 practice tests, you laid down brick after brick of math skill. The foundation is solid. The walls are strong. The roof is in place. You've built yourself a study sturdy enough to stand any storm test day might bring. ◇

★ **What architects know:** a great building starts with a great plan. You've practiced planning—reading carefully, picking your strategy, and working step by step. That blueprint thinking is what turns hard problems into clear answers. ★

Builder's Inspection Checklist

- **Foundation:** ROCK SOLID! Number sense, fractions, decimals—all in place.
- **Frame:** STRONG! You can break down a problem into clear parts.
- **Walls:** TIGHT! Your work is organized and easy to follow.
- **Roof:** FINISHED! You always answer the question that was asked.

Architect's tip: on test day, build each answer like a small building. Foundation: read the question. Frame: pick the strategy. Walls: do the math. Roof: check the answer. Each piece matters. Each piece is yours.

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 Architect (Built to Last)

PRACTICE TODAY. MASTER TOMORROW.

Give your child the confidence to excel in **Grade 5 Math!**
This book includes **10 complete practice tests** designed to build strong skills, improve test readiness, and achieve success.



10

COMPLETE PRACTICE TESTS

- ✓ Realistic. Rigorous.
- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.



THIS BOOK HELPS YOUR CHILD:



Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



Track Progress

Identify strengths and target areas with purposeful practice.



Achieve Success

Better preparation leads to higher scores and bright futures.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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