

10 COMPLETE

Oregon

OSAS

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



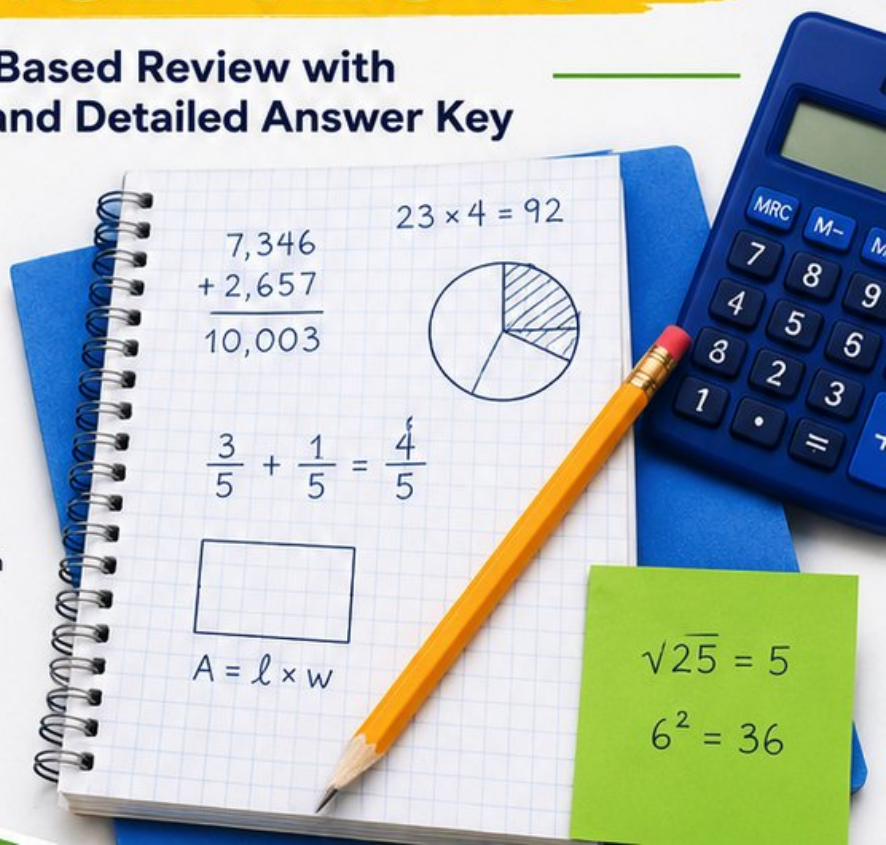
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

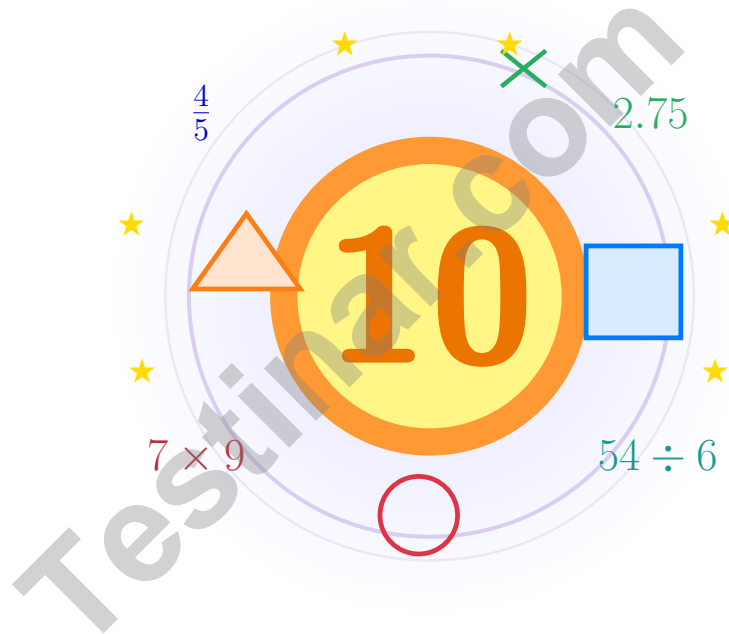
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 Oregon OSAS 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.



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.



A Good 10-Week Rhythm

Week 1	Take Test 1 and notice your starting strengths.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and sharpen multiplication and division checks.
Week 4	Take Test 4 and focus on fractions and decimals.
Week 5	Take Test 5 and watch your labels and units closely.
Week 6	Take Test 6 and practice calmer pacing.
Week 7	Take Test 7 and compare your habits with the earlier weeks.
Week 8	Take Test 8 and focus on tidy, checkable work.
Week 9	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
Week 10	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



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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

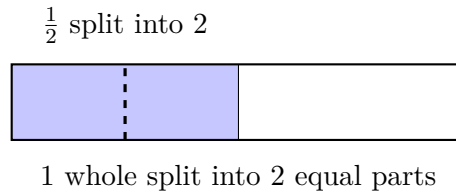
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

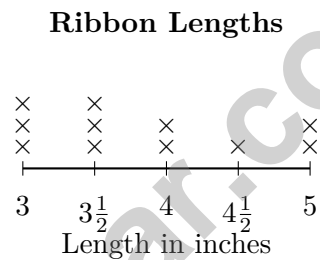
1 day = 24 hours (hr) 1 year = 52 weeks



- 5) The model shows $\frac{1}{2}$ of a whole split into 2 equal parts. What fraction of the whole is each small part?



- A. $\frac{1}{4}$
 C. $\frac{1}{3}$
 B. $\frac{1}{2}$
 D. $\frac{1}{5}$
- 6) The line plot shows ribbon lengths, in inches, measured by 11 students:



How many ribbon lengths are 4 inches or longer?

- A. 3
 C. 5
 B. 4
 D. 6
- 7) Multiply: $4\frac{2}{5} \times 2$

- A. $8\frac{4}{5}$
 C. $9\frac{1}{5}$
 B. $8\frac{2}{5}$
 D. $7\frac{3}{5}$



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Customary

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Metric

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

WEIGHT AND MASS

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Metric

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

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

TIME

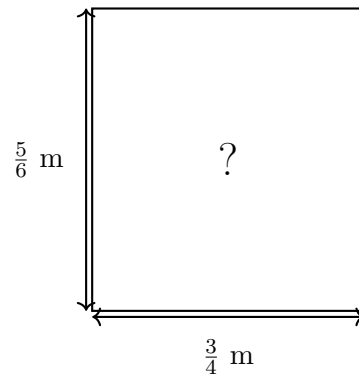
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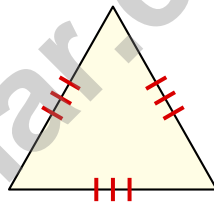


- 1) A small tile is $\frac{3}{4}$ meter by $\frac{5}{6}$ meter. What is the area? Give the answer in simplest form.



- A. $\frac{15}{10}$ m² C. $\frac{8}{10}$ m²
 B. 1 m² D. $\frac{5}{8}$ m²

- 2) Look at the triangle diagram. Count the tick marks on each side to classify it.



- A. Equilateral (all equal) C. Scalene (all different)
 B. Isosceles (two equal) D. Right triangle



38) Simplify: $\frac{9}{12} - \frac{3}{12}$

A. $\frac{5}{12}$

B. $\frac{2}{3}$

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

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

39)

Shape	Parallel sides	All sides equal	90° angles
Square	✓	✓	✓
Rectangle	✓	–	✓
Rhombus	✓	✓	–

Which name BEST describes this quadrilateral that has exactly one pair of parallel sides and is NOT a parallelogram?

A. Rectangle

B. Rhombus

C. Trapezoid

D. Square

40) A garden planter measures 9 inches long, 7 inches wide, and 3 inches tall. What is its volume?

A. 63 cubic inches

B. 189 cubic inches

C. 27 cubic inches

D. 21 cubic inches

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 B is correct.** (5.NBT.A.2) Multiply the nonzero parts first: $3 \times 2 = 6$. The factors 30 and 200 have three zeros total, so the product is 6,000.
- Choice A is correct.** (5.NF.A.1) $\frac{2}{3} = \frac{4}{6}$. $\frac{4}{6} - \frac{1}{6} = \frac{3}{6}$, which simplifies to $\frac{1}{2}$.
- Choice B is correct.** (5.NBT.A.3) Both decimals have 4 tenths. Compare the hundredths: 6 hundredths is greater than 2 hundredths, so $0.46 > 0.42$.
- Choice B is correct.** (5.NF.A.1) $7\frac{1}{12} \approx 7$ and $2\frac{11}{12} \approx 3$. So $7\frac{1}{12} + 2\frac{11}{12} \approx 7 + 3 = 10$.
- Choice A is correct.** (5.NF.B.7) Start with one unit fraction, $\frac{1}{2}$, and share it into 2 equal parts. Each part is $\frac{1}{2} \div 2 = \frac{1}{4}$ of the whole.
- Choice C is correct.** (5.DR.A.1) Count X marks at 4, $4\frac{1}{2}$, and 5 inches. That is $2 + 1 + 2 = 5$ ribbon lengths that are 4 inches or longer.
- Choice A is correct.** (5.NF.B.6) $4\frac{2}{5} = \frac{22}{5}$. Then $\frac{22}{5} \times 2 = \frac{44}{5} = 8\frac{4}{5}$.
- Choice C is correct.** (5.OA.A.1) Do the two grouped multiplications first: $7 \times 8 = 56$ and $4 \times 5 = 20$. Then subtract the results: $56 - 20 = 36$.
- Choice A is correct.** (5.OA.B.3) Pattern H is twice Pattern G: $3 \times 2 = 6$, $6 \times 2 = 12$, $9 \times 2 = 18$, $12 \times 2 = 24$, $15 \times 2 = 30$.
- Choice D is correct.** (5.GM.C.4) One gallon has 16 cups. $14 \times 16 = 224$ cups, and the extra cup makes $224 + 1 = 225$ cups.
- Choice A is correct.** (5.NF.B.7) Each liter has four quarter-liter servings. $6 \div \frac{1}{4} = 6 \times 4 = 24$ families.
- Choice D is correct.** (5.NBT.B.5) Round 298 to 300. Then $300 \times 5 = 1,500$.
- Choice B is correct.** (5.OA.A.1) The correct work multiplies before adding. Student B finds $2 \times 5 = 10$ first, then adds $6 + 10 = 16$.
- Choice A is correct.** (5.NBT.B.7) $8.75 - 2.36 = 6.39$ inches. Requires borrowing from tenths.
- Choice A is correct.** (5.NF.A.2) LCD of 8 and 6 is 24. $\frac{3}{8} = \frac{9}{24}$ and $\frac{2}{6} = \frac{8}{24}$.
- Choice C is correct.** (5.GM.B.3) A slanted parallelogram has two acute angles and two obtuse angles. The smaller opposite corners are the acute angles, so there are 2 acute angles.
- The correct answer is 450.** (5.NBT.A.2) Move the decimal point three places right: $0.45 \rightarrow 450$.
- Choice A is correct.** (5.OA.A.2) Bar A has one 2-unit length. Bar B has four copies of that same 2-unit length, so B is 4 times A.
- Choice A is correct.** (5.NBT.B.7) $5.48 + 3.26$: hundredths $8 + 6 = 14$ (regroup); tenths $4 + 2 + 1 = 7$; ones $5 + 3 = 8$. Sum is 8.74. Maya is correct.
- Choice C is correct.** (5.NF.B.6) $\frac{3}{4} \times 24 = \frac{3 \times 24}{4} = \frac{72}{4} = 18$, so 18 cups of oats are needed.
- The correct answer is 5.26.** (5.NBT.A.1) Dividing by 10 moves the decimal point one place left: $52.6 \rightarrow 5.26$.
- Choices B, C, D are correct.** (5.GM.B.3) The square has both properties. The rectangle has four right angles, and the rhombus has four equal sides. A circle has neither property.
- Choice C is correct.** (5.GM.D.6) Volume = $25 \times 15 \times 10 = 375 \times 10 = 3750 \text{ cm}^3$.
- Choice A is correct.** (5.NF.B.4) Model A: $\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$. Model B: $\frac{1}{2} \times \frac{4}{5} = \frac{4}{10} = \frac{2}{5}$. Since $\frac{1}{2} > \frac{2}{5}$, Model A shows the greater product.
- Choice B is correct.** (5.GM.B.3) A rhombus is a quadrilateral with all four sides equal in length. It does not have to have four right angles.
- Choice C is correct.** (5.NF.A.1) Add: $2\frac{3}{4} + 3\frac{1}{4} = 5\frac{4}{4} = 6$ mi.
- The correct answer is 3,000 mL.** (5.GM.C.4) $3 \times 1,000 = 3,000$ mL. Each liter has 1,000 milliliters.
- Choice C is correct.** (5.GM.A.2) The vertical line is at $x = 7$. The point (3, 5) is at $x = 3$. The horizontal distance is $7 - 3 = 4$ units.
- Choice C is correct.** (5.OA.B.3) Subtract 10 each time: 100, 90, 80, 70, 60, 50, 40, 30.



Trail Guide's Final Briefing

Brave Trail-Walker,

◇ You've walked all 10 miles of the practice trail. You've seen smooth paths, steep climbs, narrow passes, and clearings. Every step taught you something about yourself and your math skills. ◇

★ **What trail guides know:** the most important thing is to keep moving. Slow steps still get you where you need to go. You've practiced that exact pace, and now your stride is steady. ★

Trail Survey Report

- **Route Knowledge:** STRONG! You recognize different types of math problems.
- **Pacing:** STEADY! You don't rush, and you don't drag.
- **Pack Loaded:** READY! You have all the strategies you need.
- **Trail Confidence:** HIGH! You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route you know. The summit is just one steady walk away.

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 Trail Guide (Keep Walking)

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
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