

10 COMPLETE

Delaware

DeSSA

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



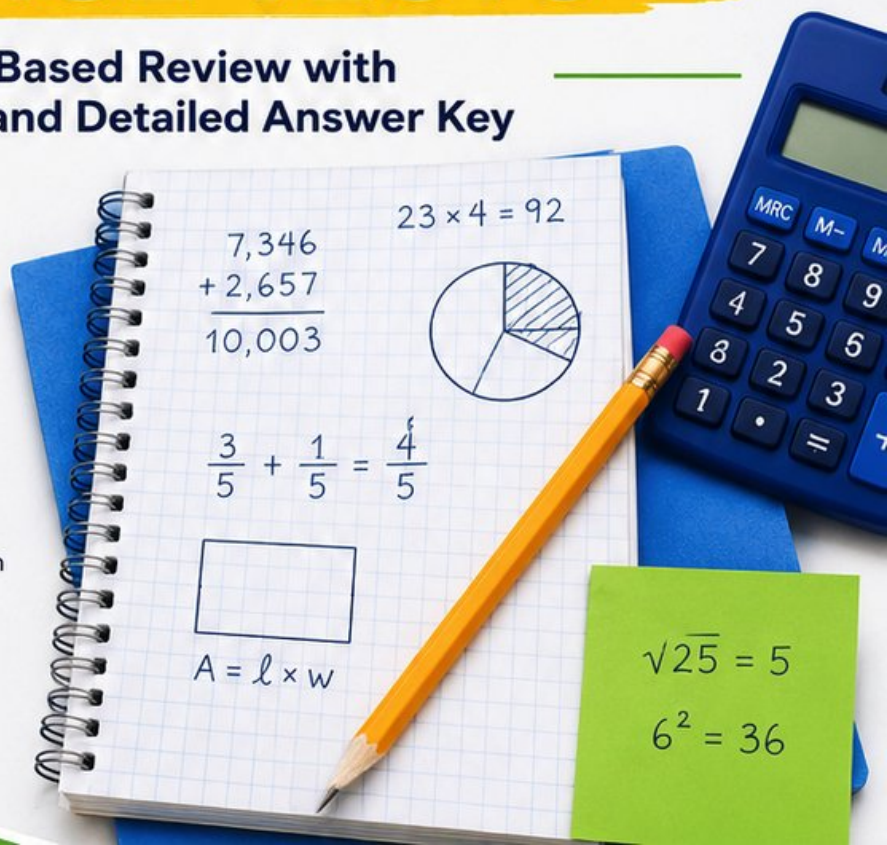
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

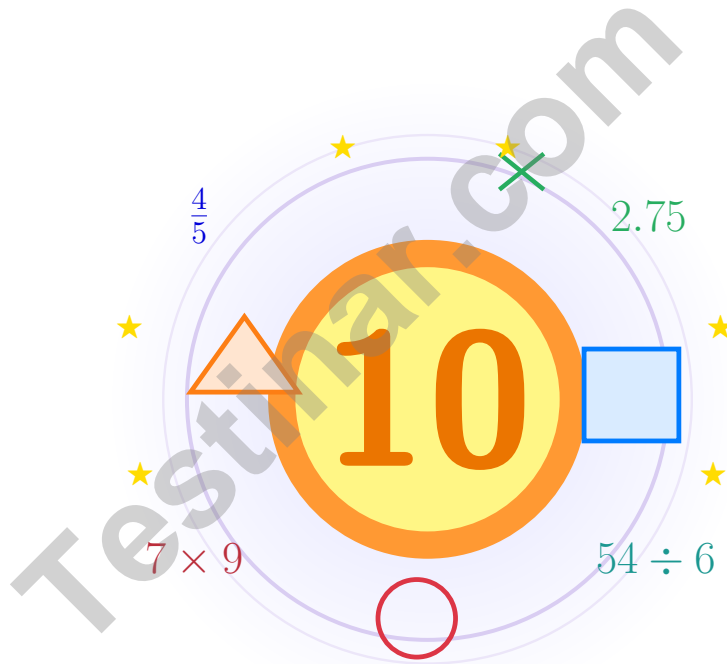
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 Delaware 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.



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

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

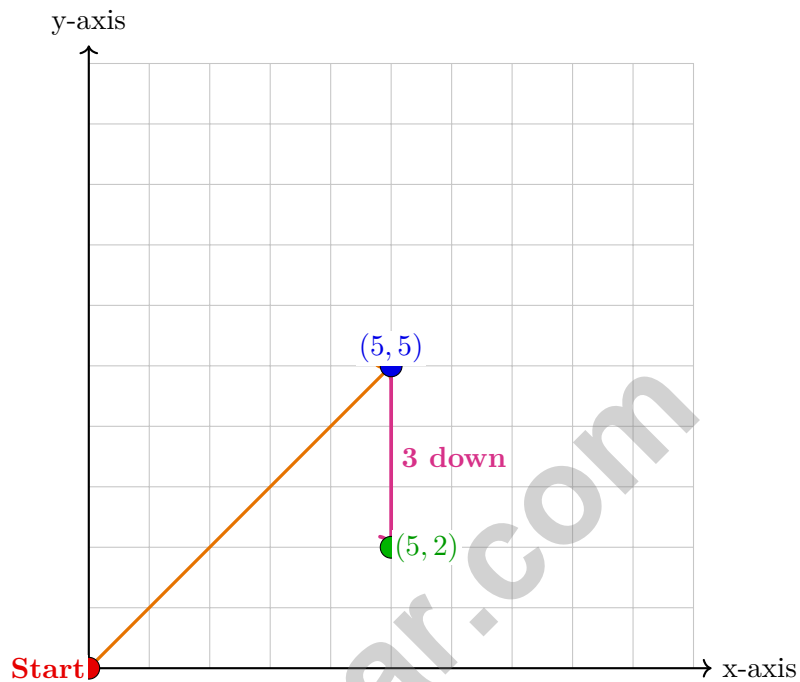
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

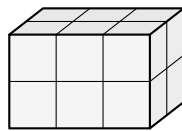
1 day = 24 hours (hr) 1 year = 52 weeks



- 1) A path on the grid goes from the origin to $(5, 5)$, then to $(5, 2)$. How many units did the path travel vertically downward?



- A. 3 units down C. 2 units down
 B. 5 units down D. 7 units down
- 2) Count the unit cubes layer by layer. The first layer has 6 cubes, the second layer has 6 cubes. How many unit cubes are there in total?



- A. 6 unit cubes C. 10 unit cubes
 B. 12 unit cubes D. 15 unit cubes



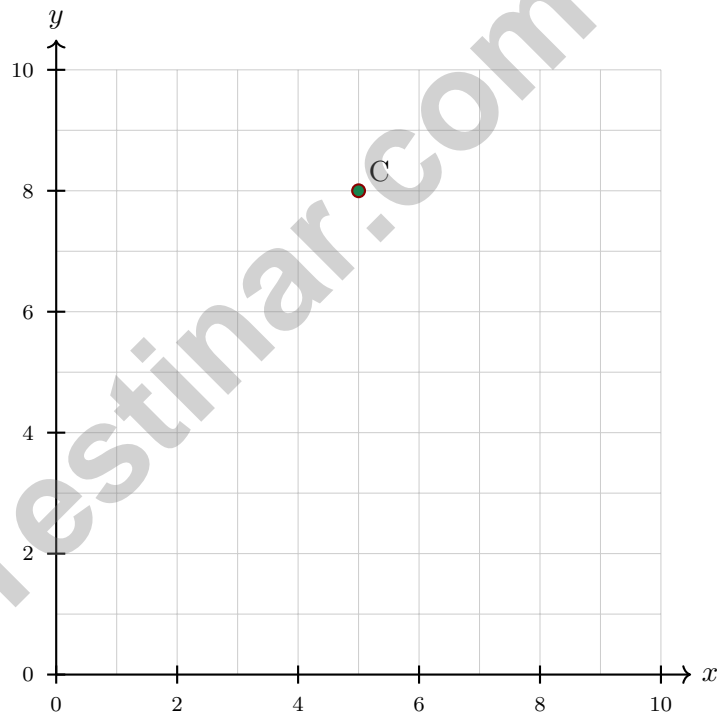
50×11	4×11
550	44
50×6	4×6
300	24

3)

Use the area model to find 54×17 .

 A. 900 C. 935 B. 918 D. 950

- 4) Point C is at (5, 8). A second point D is 4 units below point C on the same vertical line. What are the coordinates of point D?

 A. (5, 12) C. (5, 4) B. (1, 8) D. (9, 8)

Grade 5 Mathematics Reference Materials

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Area of Rectangle $A = l \times w$

Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

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1 yard (yd) = 3 feet (ft)

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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

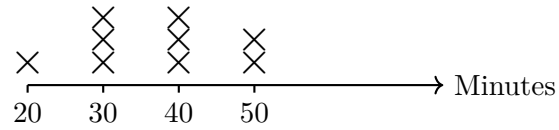
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



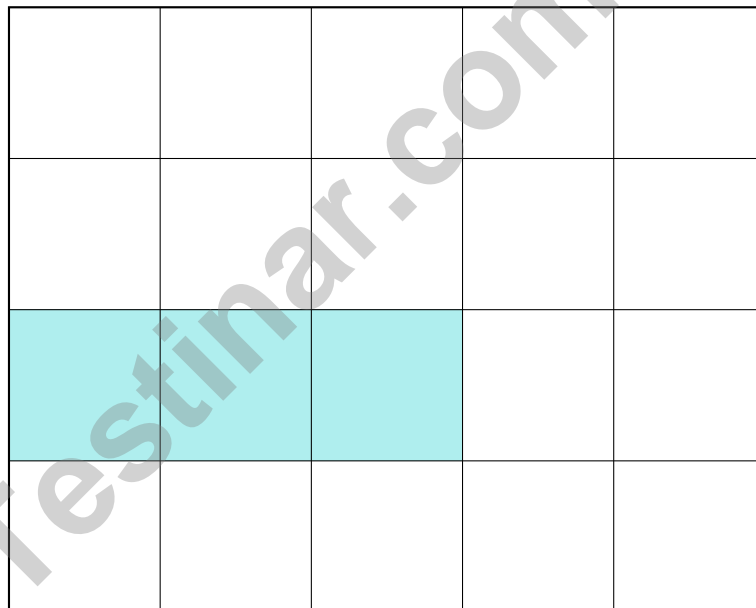
1) The line plot shows the number of minutes students practiced an instrument:



What is the total number of minutes all students practiced?

- A. 300 minutes
- B. 310 minutes
- C. 320 minutes
- D. 330 minutes

2) Grid model for $\frac{1}{4} \times \frac{3}{5}$. How many cells are shaded?

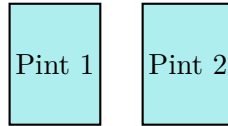


$$\frac{1}{4} \times \frac{3}{5}$$

- A. 3 cells
- B. 5 cells
- C. 6 cells
- D. 20 cells



39) How many fluid ounces are in 2 pints? (1 pint = 16 fl oz)



2 pints = ?
(16 fl oz each)

- A. 24 fl oz
 B. 40 fl oz

- C. 16 fl oz
 D. 32 fl oz

40) Subtract and simplify: $\frac{2}{3} - \frac{1}{6}$

- A. $\frac{1}{2}$
 B. $\frac{1}{6}$

- C. $\frac{4}{6}$
 D. $\frac{1}{3}$

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

- 1) **Choice A is correct.** **(5.G.A.1)** From (5, 5) to (5, 2), the y -coordinate changes from 5 to 2. The distance is $5 - 2 = 3$ units downward.
- 2) **Choice B is correct.** **(5.MD.C.4)** If there are 2 layers with 6 cubes each: $6 + 6 = 12$ or $6 \times 2 = 12$ unit cubes.
- 3) **Choice B is correct.** **(5.NBT.B.5)** Calculate: $(50 \times 11) + (4 \times 11) + (50 \times 6) + (4 \times 6) = 550 + 44 + 300 + 24 = 918$.
- 4) **Choice C is correct.** **(5.G.A.2)** Point C is at (5, 8). Moving 4 units down subtracts 4 from the y -coordinate: $8 - 4 = 4$. The x -coordinate stays 5. So point D is at (5, 4).
- 5) **Choice C is correct.** **(5.NF.B.5b)** $\frac{1}{3} \times \frac{4}{7} = \frac{4}{21}$ (multiply numerators and denominators).
- 6) **Choice C is correct.** **(5.NBT.A.2)** The nonzero part 4×25 makes 100, which has two zeros. The factor 400 adds two more zeros, so the product has 4 zeros.
- 7) **Choice C is correct.** **(5.MD.B.2)** Highest score is 6, lowest is 2. Difference: $6 - 2 = 4$.
- 8) **Choice B is correct.** **(5.OA.A.2)** The words “sum of 15 and 6” make one grouped total, (15 + 6). One-third of that total means divide it by 3.
- 9) **Choice D is correct.** **(5.NF.A.2)** The GCF of 8 and 12 is 4. Divide: $\frac{8}{12} = \frac{8 \div 4}{12 \div 4} = \frac{2}{3}$.
- 10) **Choice C is correct.** **(5.NBT.B.7)** Multiply $5 \times 0.75 = 3.75$. Since 0.75 has 2 decimal places and 5 has 0, the product has 2 decimal places: \$3.75.
- 11) **Choice D is correct.** **(5.NF.B.7c)** Each whole contains 2 pieces of size $\frac{1}{2}$. With 5 wholes, there are $5 \times 2 = 10$ pieces.
- 12) **Choice D is correct.** **(5.OA.A.2)** First translate “7 times 9” as 7×9 . Then “5 more than” means add 5 to that product.
- 13) **The correct answer is 26.** **(5.OA.B.3)** Each term increases by 3. Starting at 5: term 8 is $5 + (8 - 1) \times 3 = 5 + 21 = 26$.
- 14) **Choice A is correct.** **(5.NBT.A.3a)** $2 \times 1 = 2$; $3 \times \frac{1}{10} = 0.3$; $7 \times \frac{1}{100} = 0.07$. So $2 + 0.3 + 0.07 = 2.37$.
- 15) **Choice A is correct.** **(5.MD.C.5a)** $V = 11 \times 3 \times 8 = 33 \times 8 = 264 \text{ ft}^3$.
- 16) **Choice A is correct.** **(5.NF.A.1)** Borrow 1 from 6: $5\frac{7}{5} - 3\frac{4}{5} = 2\frac{3}{5}$.
- 17) **Choice C is correct.** **(5.NF.A.2)** $\frac{1}{4} + \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$. Both ate equal amounts, so together they ate half the bar.
- 18) **Choice B is correct.** **(5.G.A.2)** The x -coordinate (6) is pounds of apples, and the y -coordinate (12) is the total price in dollars. So 6 pounds cost \$12.
- 19) **The correct answer is =.** **(5.NBT.A.3b)** Trailing zero adds no value; both equal 7.2.
- 20) **Choices A, B are correct.** **(5.NF.B.4b)** In an area model, multiply the side lengths to find the shaded overlap. Choice C miscounts the equal parts, and D confuses addition with area.
- 21) **Choice A is correct.** **(5.G.A.2)** Starting at (0,0), adding 2 to x and 1 to y each time gives (0,0), (2,1), (4,2), (6,3). Graph A shows those points.
- 22) **Choice C is correct.** **(5.MD.B.2)** At 10 gallons: 2 drivers, at 15 gallons: 2 drivers. Between 10 and 15 (inclusive): $2 + 2 = 4$ drivers.
- 23) **Choice C is correct.** **(5.MD.C.5)** Total is 5 miles. Sum of known segments: $1.2 + 1.3 + 1.1 = 3.6$ miles. Final segment: $5 - 3.6 = 1.4$ miles.
- 24) **Choice C is correct.** **(5.G.B.4)** The 7 figures in the outer part of the parallelogram circle are parallelograms but not rectangles.
- 25) **Choice C is correct.** **(5.G.B.4)** A triangle cannot have both a 90° angle and an angle greater than 90° , because the three angle measures must add to 180° .
- 26) **Choice D is correct.** **(5.NF.B.7c)** $8 \div \frac{1}{3} = 8 \times 3 = 24$. There are 24 sections.
- 27) **Choice D is correct.** **(5.MD.A.1)** Since 1 pint = 2 cups, divide 8 by 2: $8 \div 2 = 4$ pints.
- 28) **Choice C is correct.** **(5.OA.A.1)** Evaluate inside the parentheses first: $15 - 7 = 8$. Then $8 \times 3 = 24$, so choice C has a value of 24.
- 29) **Choice A is correct.** **(5.NBT.A.1)** $0.6 \times 10 = 6$. The digit 6 was in the tenths place and moves to the ones place.
- 30) **Choice B is correct.** **(5.G.B.4)** A shape with opposite sides parallel and opposite sides equal is a parallelogram. The figure shown has these properties.



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
- ✓ And More!



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