

$\frac{2}{3}$

FULL-LENGTH

$\frac{2}{4}$

0,25

Delaware

$7 \times 8 =$



★★★★★
Aligned to State Standards

7×8

Smarter Balanced

$56 \div 7$

MATH

Grade

5

$(a+b)^2$

PRACTICE TESTS

Complete State Standards Review
with Answer Key and
Essential Math Skills Practice



3 Full-Length Practice Tests
Aligned to State Standards



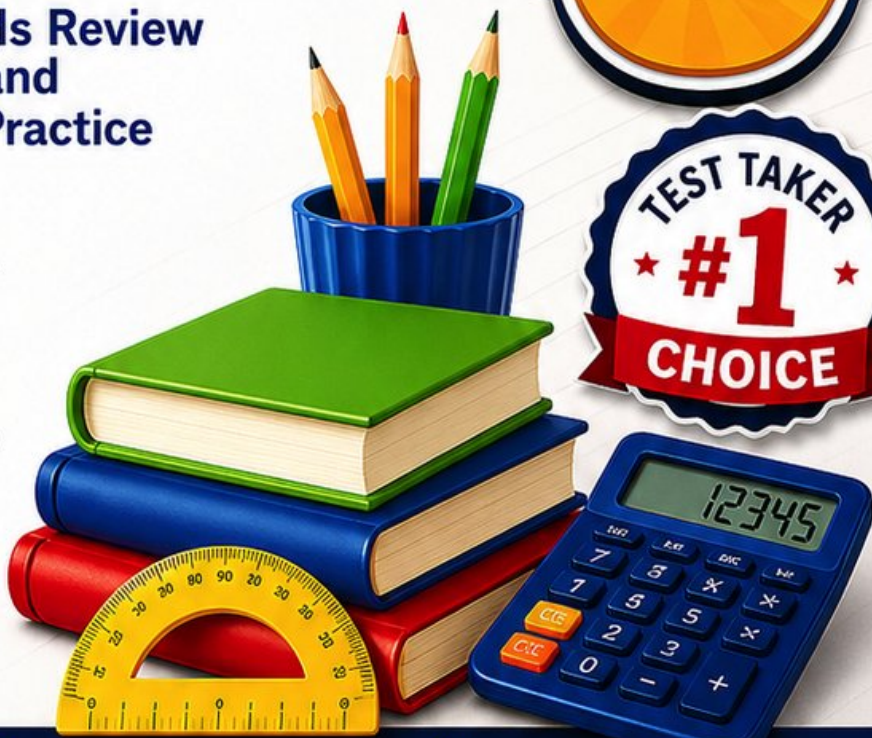
Covers All Grade 5 Math Topics
Numbers & Operations, Fractions,
Decimals, Geometry, Measurement,
Data & Problem Solving



Build Confidence
Strengthen Skills • Improve Accuracy
• Boost Test Readiness



Detailed Answer Key
Step-by-Step Explanations
for All Questions



WRITTEN FOR
GRADE 5 STUDENTS



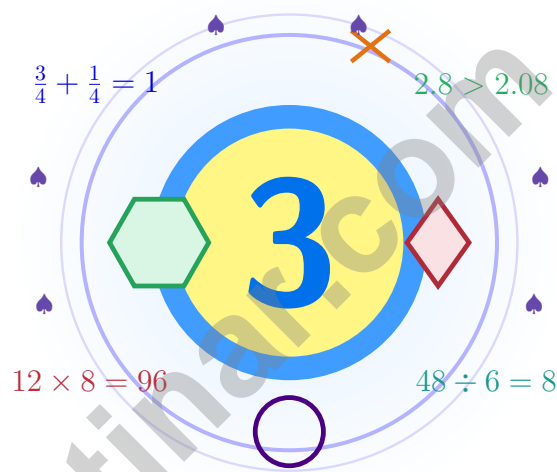
PERFECT FOR
TEST PREP & REVIEW



CLASSROOM, HOME,
OR SELF-STUDY USE

3 Delaware Smarter Balanced Grade 5 Math Practice Tests

First state, first habits, first steady steps



Three full tests, a friendly quick review, smart strategy pages, and student-tested support that help Grade 5 mathematicians from The First State walk in ready to think.

Jay Daie and Reza Nazari



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Delaware Mathematicians, Step Up

First state, first habits, first steady steps

To Every Math Brain in Delaware

Math grows the way a seedling grows in Delaware soil – a little water, a little sunlight, and steady, patient root work.

Some questions will feel easy from the very first read. Others will ask you to pause, sketch, estimate, or try again. That is not a problem. That is practice doing exactly what it should do. Every honest attempt grows your math brain a little stronger.

Read

Read with care – math problems hide their gifts.

Try

Try a strategy that fits the size of the numbers.

Reflect

Reflect after each problem to lock the lesson in.

A Delaware promise to yourself: I will be the first to slow down, the first to check, and the first to learn from a mistake.

Use This Book Like a Coach

A simple game plan that turns practice into real progress

Step 1: Notice

Notice the structure: warm-up, test, review.

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Practice

Practice one full test under quiet conditions.

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions, sort out what went sideways, and notice which skills are calling for more attention.

Step 4: Polish

Polish the rough spots before test number two.

Read the explanation, fix the work, and carry that lesson forward into the next test.

Your 3-Week Sharpening Plan

Week 1	Test 1 is your map-making week.
Week 2	Test 2 is your fix-it week.
Week 3	Test 3 is your show-up-strong week.



Scan me

Test-Style Practice

What these practice tests help Grade 5 students build

These three practice tests guide Grade 5 students in Delaware into the Delaware Smarter Balanced with the same calm care that built the First State. The goal is bigger than getting answers right. Students are practicing how to read with care, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every single day.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first, ruling out weak choices, and checking for reasonableness can save both time and points.

Constructed-Response Questions

Students show their steps, explain a method, or back up an answer with clear math. Clean reasoning matters because it shows how the answer was actually found.

Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- line plots, tables, numerical patterns, and coordinate points
- geometry and multi-step real-world problems

What strong work looks like on the Smarter Balanced: the math is correct, the steps are readable, the labels and units match the problem, and the final answer truly answers the question being asked.



Table of Contents

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Practice Test Answers and Explanations	_____	67

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) Which subtraction problem requires borrowing?

A	B	C	D
$6.75 - 2.31$	$5.82 - 2.56$	$8.42 - 1.21$	$7.65 - 3.22$

A. A

C. C

B. B

D. D

2) Evaluate: $9 \times 4 - 16 \div 4$

A. 5

C. 30

B. 25

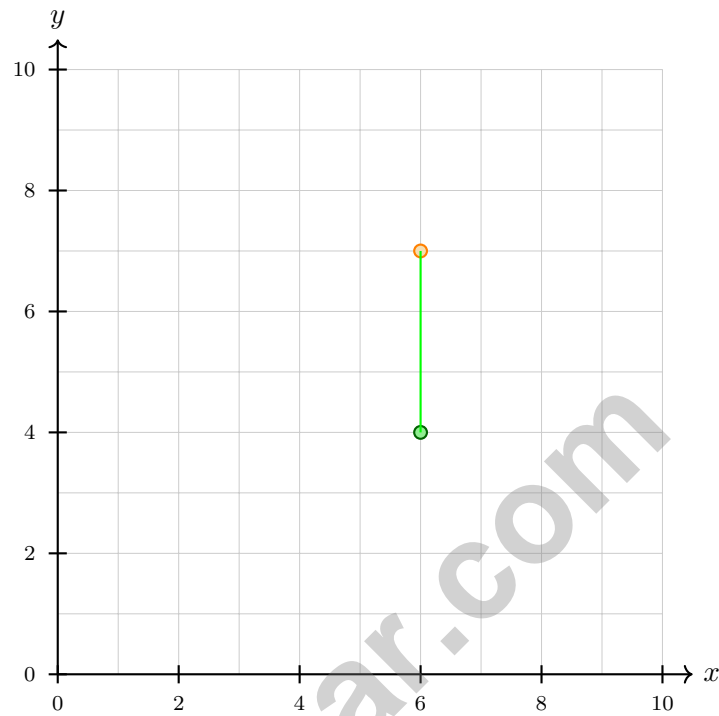
D. 32

3) Which number is greatest: 0.76, 0.9, or 0.84?

Record your answer in the space provided.



4) A point is moved from $(6, 4)$ to $(6, 7)$. How many units did it move and in what direction?



A. 3 units down

B. 3 units up

C. 3 units left

D. 3 units right

5) Convert: 3 yards = ? feet.

Record your answer in the space provided.



Scan me

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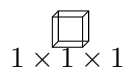
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1) A cubic unit is defined as:



- A. A cube with all sides 1 unit long C. Any cube, regardless of size
 B. A flat square with area 1 square unit D. A line segment of length 1
- 2) A roll has 6 meters of paper. Each craft uses one fourth meter. Which division equation matches the situation?
- A. $\frac{1}{4} \div 6 = n$ C. $6 \div \frac{1}{4} = n$
 B. $6 \times \frac{1}{4} = n$ D. $6 + \frac{1}{4} = n$
- 3) A road is $\frac{7}{8}$ mile long. You have traveled $\frac{4}{7}$ of the road. How far have you traveled? Give the answer in simplest form.
- A. $\frac{28}{15}$ mile C. $\frac{3}{5}$ mile
 B. $\frac{1}{2}$ mile D. 1 mile
- 4) A company spends \$1,200 on office supplies monthly. How much do they spend in 12 months?
- A. \$12,000 C. \$14,400
 B. \$13,200 D. \$15,600
- 5) A rectangular prism has length 9 cm, width 4 cm, and height 3 cm. What is its volume?
- A. 27 cm^3 C. 108 cm^3
 B. 36 cm^3 D. 216 cm^3



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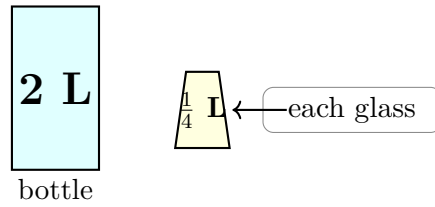
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1) A bottle holds 2 liters of juice. If each glass holds $\frac{1}{4}$ liter, how many glasses can be filled?

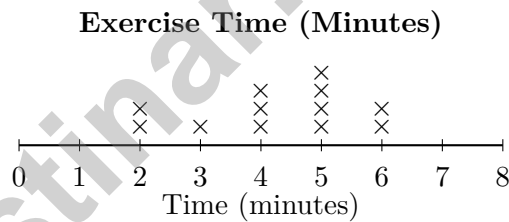


- A. 8 glasses
- B. 6 glasses
- C. 4 glasses
- D. 10 glasses

2) What is 4.7×10 ?

- A. 0.47
- B. 4.7
- C. 47
- D. 470

3) The line plot displays the number of minutes students exercised:



What is the most common exercise time?

- A. 4 minutes
- B. 7 minutes
- C. 6 minutes
- D. 5 minutes

4) A student lists ordered pairs from the rule “the output is half of the input”: (4, 2), (6, 3), (8, 4), (10, ?). Find the missing output.

- A. 4
- B. 5
- C. 6
- D. 10



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.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(5.NBT.B.7)** Option B ($5.82 - 2.56$) requires borrowing because 2 hundredths is not enough to subtract 6 hundredths. Borrow 1 tenth to make 12 hundredths.
- 2) **Choice D is correct.** **(5.OA.A.1)** Handle multiplication and division before subtraction. We get $9 \times 4 = 36$ and $16 \div 4 = 4$, so the expression becomes $36 - 4 = 32$.
- 3) **The correct answer is 0.9.** **(5.NBT.A.3b)** Compare the tenths first: 0.9 has 9 tenths, 0.84 has 8 tenths, and 0.76 has 7 tenths. The greatest is 0.9.
- 4) **Choice B is correct.** **(5.G.A.2)** The x -coordinate stays at 6. The y -coordinate changes from 4 to 7, which is $7 - 4 = 3$ units up.
- 5) **The correct answer is 9 ft.** **(5.MD.A.1)** $3 \times 3 = 9$ feet. Each yard has 3 feet, so 3 yards has three groups of 3 feet.
- 6) **Choice A is correct.** **(5.NBT.B.7)** Multiply: $23 \times 5 = 115$, then place decimal one place from right: 11.5.
- 7) **Choice D is correct.** **(5.NF.B.5a)** The products are 18, 24, and 30 respectively. The factor size ($\frac{3}{4} < 1 < \frac{5}{4}$) determines the product order.
- 8) **Choice A is correct.** **(5.NF.A.1)** The correct answer is $\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}$. The student incorrectly added numerators and denominators.
- 9) **Choice A is correct.** **(5.NBT.B.7)** Hundredths: $75 + 38 = 113$ hundredths, which is 1 whole and 13 hundredths. Add that extra whole to $1 + 2$: the correct sum is 4.13. Nice careful regrouping keeps each place value in its place.
- 10) **Choice A is correct.** **(5.MD.C.5a)** $V = B \times h = 32 \times 9 = 288 \text{ in}^3$.
- 11) **The correct answer is 1000.** **(5.NBT.A.2)** $\frac{100,000}{100} = 1,000$, which is 10^3 .
- 12) **Choice A is correct.** **(5.NF.B.7c)** $\frac{1}{4} \div 3 = \frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$.
- 13) **Choice C is correct.** **(5.NF.A.2)** $\frac{5}{12} \approx \frac{1}{2}$ and $\frac{9}{17} \approx \frac{1}{2}$. So $\frac{5}{12} + \frac{9}{17} \approx \frac{1}{2} + \frac{1}{2} = 1$.
- 14) **Choice D is correct.** **(5.NF.B.7c)** Start with one unit fraction, $\frac{1}{2}$, and share it into 4 equal parts. Each part is $\frac{1}{2} \div 4 = \frac{1}{8}$ of the whole.
- 15) **Choice A is correct.** **(5.NBT.A.2)** $10^1 = 10$, so $4,200 \div 10 = 420$.
- 16) **Choice D is correct.** **(5.MD.C.5c)** Find each part first: Prism A is $7 \times 4 \times 4 = 112$ cubic meters, and Prism B is $6 \times 2 \times 4 = 48$ cubic meters. Because the parts do not overlap, add them: $112 + 48 = 160$ cubic meters.
- 17) **Choice A is correct.** **(5.NBT.B.6)** $1,400 \div 28 = 50$ and $1,400 \div 35 = 40$. Since we are dividing the same amount by a smaller divisor ($28 < 35$), the quotient is larger: $50 > 40$.
- 18) **Choice D is correct.** **(5.G.A.2)** The two coordinates are equal at each point. The points increase by 2 in both coordinates: (1,1), (3,3), (5,5), (7,7), (9,9).
- 19) **Choice D is correct.** **(5.NF.B.7c)** $5 \div \frac{1}{6} = 5 \times 6 = 30$.
- 20) **Choices A, B are correct.** **(5.NF.B.5b)** Multiply straight across: $\frac{2}{3} \times \frac{3}{5} = \frac{6}{15} = \frac{2}{5}$. C comes from adding instead of multiplying, and D is false because multiplying by a fraction less than 1 makes the amount smaller.
- 21) **Choice B is correct.** **(5.G.B.4)** A parallelogram has both pairs of opposite sides parallel. Its opposite sides are also equal in length.
- 22) **Choice C is correct.** **(5.NBT.A.2)** 10^3 means 1,000. Multiplying 0.01 by 1,000 moves the decimal three places right, giving 10.
- 23) **Choice A is correct.** **(5.NBT.A.3a)** $\frac{5}{10} = 0.5$ (tenths place) and $\frac{2}{100} = 0.02$ (hundredths place), so $3 + 0.5 + 0.02 = 3.52$.
- 24) **Choice D is correct.** **(5.NF.A.1)** $6 - 4 = 2$ and $\frac{2}{5} - \frac{1}{5} = \frac{1}{5}$. Result: $2\frac{1}{5}$.
- 25) **Choice A is correct.** **(5.OA.A.2)** Both fractions start with the same total, 500. Splitting it into 20 equal parts makes each part larger than splitting it into 25 equal parts.
- 26) **Choice A is correct.** **(5.NBT.A.2)** $73 \times 10 \times 10 = 730 \times 10 = 7300$, which equals 73×100 .
- 27) **Choice A is correct.** **(5.NF.B.5a)** The colored part is $\frac{1}{4}$ of the whole bar. $12 \times \frac{1}{4} = 3$ inches.
- 28) **Choice B is correct.** **(5.NF.B.5b)** Check the choices by multiplying. Since $3\frac{1}{4} \times 2 = 6\frac{1}{2}$, the missing factor is $3\frac{1}{4}$.



Dear Hero of This Story,

◇ Once upon a time, there was a brave Grade 5 student who decided to take 3 practice tests. At first, the problems were tough. But the student kept showing up, kept trying, and kept learning. Slowly, the tough problems became easier. The student's confidence grew. By the time the 3th test was finished, that student had become the hero of their own math story. That student is you. ◇

★ **Storytellers know:** every great story has a hard middle. The hard middle is where the hero grows. You've lived your hard middle, and now your story is heading toward a strong ending: a confident test day. ★

Your Hero's Toolkit

- **Brave Heart:** You face hard problems instead of running.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check your work.
- **Kind Spirit:** You're patient with yourself when you make mistakes.

Storyteller's tip: when you sit down on test day, remember the hero you've become. The chapters before this moment have made you stronger. Now, write your best chapter yet.

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 Storyteller (The Best Pages Are Ahead)

Build Skills. Boost Confidence. Excel on the Grade 5 Math Test.

Help your child succeed with confidence! This book includes **3 full-length Grade 5 Math practice tests** aligned to state standards. With a focus on essential skills, problem solving, and test readiness, it's the perfect resource for classroom, home, or on-the-go practice.



WHAT'S INSIDE:



3 Full-Length Grade 5 Math Practice Tests

Realistic test format to build familiarity and confidence.



Covers All Essential Math Topics

Fractions, decimals, geometry, measurement, data, number operations, and more.



Build Strong Math Skills

Strengthen understanding and problem-solving through varied question types.



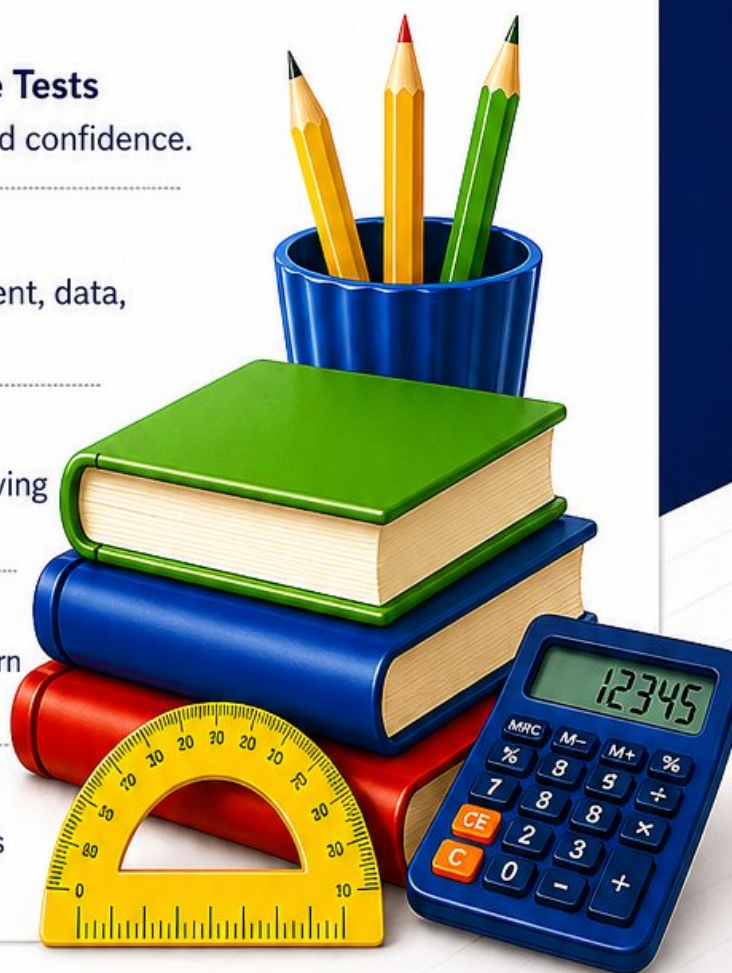
Detailed Answer Key

Step-by-step explanations to help your child learn from mistakes and improve.



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Use score trackers to identify strengths and focus on areas that need more practice.



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- ✓ Improve accuracy and speed
- ✓ Reduce test anxiety
- ✓ Achieve your best score!



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