

4

COMPLETE

Arizona AASA

Grade

MATH

5

PRACTICE TESTS

Standards-Based Test Prep with
Mixed Review, Word Problems,
and **Full Answer Key**



- ✓ **4 COMPLETE PRACTICE TESTS**
Built to reflect the test format and rigor



- ✓ **COVERS ALL ESSENTIAL TOPICS**
Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more



- ✓ **STRENGTHEN SKILLS & CONFIDENCE**
Mixed review, challenging questions, and strategic practice



- ✓ **FULL ANSWER KEY INCLUDED**
Detailed explanations for every question



**BUILD STRONG
MATH SKILLS
& TEST READINESS**



**IMPROVE ACCURACY,
SPEED, AND
PROBLEM SOLVING**



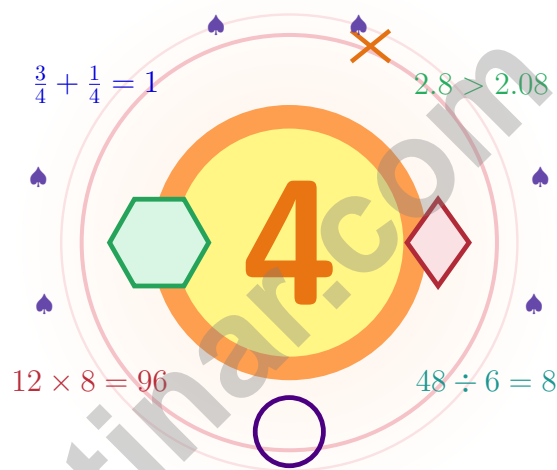
**PERFECT FOR
CLASSROOM,
HOME, OR
SELF-STUDY**



**ALIGNED TO
ARIZONA
STATE STANDARDS
(AASA)**

4 Arizona AASA Grade 5 Math Practice Tests

A four-test mission for curious, careful Grade 5 thinkers



Four full tests, a smart quick review, mission-style strategy pages, and student-tested support that help Grade 5 mathematicians from The Grand Canyon State build calm, careful, confident habits.

Jay Daie and Reza Nazari



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Arizona, The Four-Test Quest Starts Here

Four full tests, four lessons, one stronger mathematician

To Every Math Brain in Arizona

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Like the Grand Canyon, math problems often look enormous at first glance. Up close, they reveal layer after layer of clear, solvable steps.

You do not need to feel perfect before you begin. You just need to stay curious, use strategies, and learn from every correction. That is how confident mathematicians are built.

Read

Read every word and circle key numbers.

Solve

Solve cleanly so your work tells a story.

Reflect

Reflect on what worked and what wobbled.

A strong mission habit for Arizona: keep your work neat, estimate when it helps, label units carefully, and never let one hard question decide your mood for the whole page.

Use This Book Like a Mission Coach

A four-step routine that turns practice into real improvement

Step 1: Notice

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

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 in 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 attention.

Step 4: Polish

Polish the rough spots before test number two.

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



A Four-Week Arizona Mission Map

Week	Mission Focus
Week 1	Take Test 1. Treat it like the rim of the Grand Canyon – look out wide before you start the descent.
Week 2	Take Test 2 and zoom in on word problems and visual models. Slow reading earns big points.
Week 3	Take Test 3 to polish fractions, decimals, and measurement conversions. Each is a layer of canyon rock.
Week 4	Take Test 4 and bring everything together: calm focus, neat work, careful checking, confident finish.



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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)

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

WEIGHT AND MASS

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

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

TIME

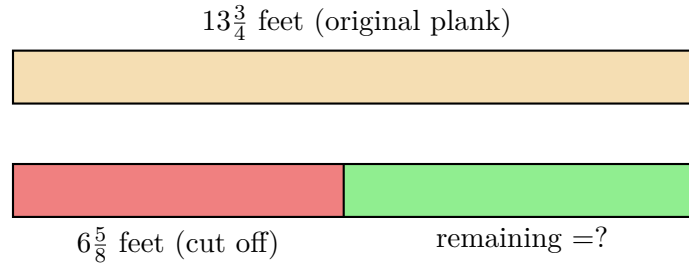
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) A plank of wood is $13\frac{3}{4}$ feet long. A carpenter cuts off a piece $6\frac{5}{8}$ feet long. (First, express with common denominator.) How much wood remains?



- A. $7\frac{1}{8}$ ft C. $6\frac{3}{8}$ ft
 B. $7\frac{1}{4}$ ft D. $6\frac{5}{8}$ ft
- 2) A coordinate plane shows points where the second coordinate is 2 less than the first coordinate. Which point does NOT fit?
- A. (3, 1) C. (7, 5)
 B. (5, 3) D. (8, 7)
- 3) A triangle has side lengths 5 cm, 5 cm, and 5 cm. Classify the triangle by its sides.

Record your answer in the space provided.

- 4) A juice carton holds 8 cups. How many pints is that? (1 pint = 2 cups)



- A. 2 pints C. 6 pints
 B. 8 pints D. 4 pints

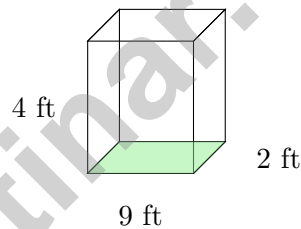


5) A student claims: “ $0.4 < 0.35$ because 0.4 has fewer decimal digits.” Is this reasoning correct?

- A. Yes, fewer digits always means smaller
- B. Cannot determine
- C. Yes, $0.4 < 0.35$ is always true
- D. No, the digits represent different place values

6) Pattern A starts at 0 and adds 3. Pattern B starts at 0 and adds 9. For each corresponding nonzero term, how many times as large is Pattern B as Pattern A?

Record your answer in the space provided.



7)

Find the volume.

- A. 18 ft^3
- B. 36 ft^3
- C. 72 ft^3
- D. 15 ft^3



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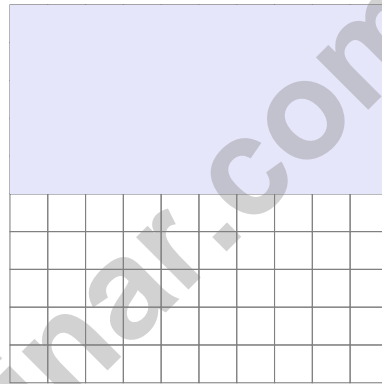
1) A measurement is 11.549 cm. Round to nearest tenth for a woodworking project.

- A. 11.5 cm C. 11.6 cm
 B. 11.54 cm D. 12 cm

2) Multiply: $4\frac{1}{3} \times 1\frac{1}{2}$

- A. $5\frac{5}{6}$ C. $4\frac{1}{3}$
 B. $7\frac{1}{3}$ D. $6\frac{1}{2}$

3) Use the 10 by 10 grid. The shaded region shows $\frac{50}{100}$. What is this fraction in simplest form?



- A. $\frac{1}{2}$ C. $\frac{2}{5}$
 B. $\frac{1}{5}$ D. $\frac{5}{100}$

4) Observation: $5 \times 20 = 100$; $5 \times 200 = 1,000$; $5 \times 2,000 = 10,000$. Based on this pattern, how many zeros does $5 \times 20,000$ have?

- A. 5 C. 3
 B. 4 D. 6



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- 1) Maria buys a sweater for \$42.50 and pants for \$38.75. She pays with a \$100 bill. How much change does she receive?

Item	Price
Sweater	\$42.50
Pants	\$38.75
Subtotal	?
Paid	\$100.00
Change	?

- A. \$25.00 C. \$21.50
 B. \$20.25 D. \$18.75
- 2) How many times greater is $5 \times (12 + 8)$ than $(12 + 8)$?

Record your answer in the space provided.

- 3) A painter mixed $9\frac{1}{3}$ gallons of blue paint and $4\frac{2}{3}$ gallons of red paint. How much more blue paint is there than red paint?
- A. $4\frac{2}{3}$ gal C. $5\frac{1}{3}$ gal
 B. 5 gal D. $5\frac{2}{3}$ gal



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.A.1) Common denominator is 8: $13\frac{6}{8} - 6\frac{5}{8} = 7\frac{1}{8}$ ft.
- Choice D is correct.** (5.G.A.2) Check: (3, 1), (5, 3), and (7, 5) each have a second coordinate 2 less than the first. For (8, 7), $8 - 2 = 6$, not 7.
- The correct answer is equilateral.** (5.G.B.4) The side lengths are 5 cm, 5 cm, and 5 cm, so all 3 sides are equal. The triangle is equilateral.
- Choice D is correct.** (5.MD.A.1) Since 1 pint = 2 cups, divide 8 by 2: $8 \div 2 = 4$ pints.
- Choice D is correct.** (5.NBT.A.3) The reasoning is flawed. $0.4 = 0.40$, and 40 hundredths is greater than 35 hundredths. We must align place values, not count digits.
- The correct answer is 3.** (5.OA.B.3) For nonzero terms, $9 \div 3 = 3$, $18 \div 6 = 3$, and so on.
- Choice C is correct.** (5.MD.C.4) $V = 9 \times 2 \times 4 = 72$ ft³.
- Choice A is correct.** (5.OA.B.3) Check the rows: $1 \times 3 - 1 = 2$, $2 \times 3 - 1 = 5$, and $3 \times 3 - 1 = 8$. The same rule works for the table.
- Choice A is correct.** (5.NF.B.4) $\frac{1}{12} \div 2 = \frac{1}{12} \times \frac{1}{2} = \frac{1}{24}$.
- The correct answer is 1.** (5.G.B.4) The description says exactly one pair of parallel sides, so the answer is 1 pair.
- Choice D is correct.** (5.NBT.B.7) Line up decimal points and subtract place by place. $15.50 - 7.25 = 8.25$ meters. This confirms the answer.
- Choice C is correct.** (5.G.B.3) A pentagon has 5 sides, while a quadrilateral has 4 sides. So a pentagon is not a quadrilateral.
- Choice D is correct.** (5.NBT.A.4) The tenths digit is 3. The hundredths digit is 4. Since $4 < 5$, keep tenths as 3: $11.348 \rightarrow 11.3$. Maya is correct.
- Choice D is correct.** (5.OA.A.2) The divisor is the whole sum $2 + 3$, so it needs parentheses. That gives $10 \div (2 + 3)$.
- Choice B is correct.** (5.NF.A.1) LCM(3,4) = 12. $\frac{2}{3} = \frac{8}{12}$ and $\frac{3}{4} = \frac{9}{12}$. $\frac{8}{12} + \frac{9}{12} = \frac{17}{12} = 1\frac{5}{12}$.
- Choice A is correct.** (5.NBT.A.2) 10^4 means $10 \times 10 \times 10 \times 10$, which is 10,000.
- Choice A is correct.** (5.NF.A.2) $\frac{6}{12} = \frac{6 \div 6}{12 \div 6} = \frac{1}{2}$ in simplest form.
- Choice A is correct.** (5.NF.B.4) "Half of $\frac{3}{4}$ " means $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$.
- Choices A, B are correct.** (5.NBT.A.2) $45 \times 100 = 4500$ and $450 \times 10 = 4500$. C equals 45,000, and D equals 450.
- Choice B is correct.** (5.MD.C.5) The base layer has $6 \times 7 = 42$ square units. Divide the volume by the base area: $84 \div 42 = 2$, so the height is 2 inches.
- Choice A is correct.** (5.G.A.2) Pattern B is twice the term number. For $n = 1, 2, 3$, the B-values are 2, 4, 6, giving (1, 2), (2, 4), (3, 6).
- Choice C is correct.** (5.OA.A.1) Evaluate inside the parentheses first: $20 \div 2 = 10$. Then add 6 to get 16.
- Choice C is correct.** (5.NBT.A.2) There is no error. Multiplying by 10 shifts the digits one place left, so 52 becomes 520.
- Choice C is correct.** (5.OA.A.1) The diagram separates the multiplication and division nicely: $8 \times 5 = 40$ and $12 \div 3 = 4$. Then $40 - 4 + 7 = 43$.
- Choice D is correct.** (5.NF.B.4) $2\frac{3}{4} = \frac{11}{4}$ and $2\frac{2}{5} = \frac{12}{5}$. Multiply: $\frac{11}{4} \times \frac{12}{5} = \frac{132}{20} = 6\frac{12}{20} = 6\frac{3}{5}$.
- Choice D is correct.** (5.MD.C.3) Find each part first: Prism A is $5 \times 4 \times 5 = 100$ cubic meters, and Prism B is $6 \times 2 \times 3 = 36$ cubic meters. Because the parts do not overlap, add them: $100 + 36 = 136$ cubic meters.
- Choice D is correct.** (5.MD.C.5) Divide the volume by the base area: $450 \div 50 = 9$, so the height is 9 cm.
- Choice B is correct.** (5.MD.C.4) 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 D is correct.** (5.NBT.A.2) Dividing by 10 makes the number one-tenth as large, so 9.6 becomes 0.96.
- The correct answer is 720 cm³.** (5.MD.C.4) $12 \times 6 \times 10 = 720$ cm³.
- Choice B is correct.** (5.NBT.A.2) Dividing by a power of 10 shifts the value to a smaller place. $7,000 \div 10 = 700$ screws per box. This confirms the answer.



Personal Trainer Wrap-Up

Math Athlete, Listen Up!

◇ 4 practice tests done. That's serious training. Your math muscles are strong, your endurance is high, and your reflexes (recognizing problem types) are quick. You're in great shape for the big test. ◇

★ **Trainer's wisdom:** muscle memory is real, even in math. The more you do something, the more your brain knows how to do it without thinking. You've built that muscle memory over 4 tests. Now it's automatic. ★

Athlete's Performance Card

- **Endurance:** TOP-TIER! You can finish a long test without burnout.
- **Strength:** STRONG! You handle multi-step problems with power.
- **Speed:** SHARP! You move efficiently from question to question.
- **Recovery:** GREAT! You bounce back fast from tough questions.

Trainer's tip: on test day, hydrate, breathe deeply, and warm up with the easier questions first. Build your rhythm. Your training will carry you the rest of the way.

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 Trainer (You're In Great Shape)

4 COMPLETE TESTS. CONFIDENCE. SUCCESS.



Give your child the practice and confidence they need to excel in **Grade 5 Math**. This book includes **4 full-length** practice tests designed to build skills, improve test readiness, and help students reach their full potential.

WHAT'S INSIDE:



4 COMPLETE PRACTICE TESTS

Full-length tests that reflect real test format and rigor.



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Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more.



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Build problem-solving skills with mixed review questions and real-world word problems.



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



BUILD CONFIDENCE & IMPROVE SCORES

Practice consistently, reduce test anxiety, and achieve your best score!



PRACTICE SMART. LEARN MORE. ACHIEVE YOUR BEST.



Strengthen
Math Skills



Improve
Accuracy
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Master
Essential
Concepts



Boost
Confidence
on Test Day



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