

7

Arizona

AASA

GRADE 5

MATHEMATICS

PRACTICE TESTS

✓
PRACTICE
PREPARE
SUCCEED

★★★

Comprehensive Standards-Aligned
Review for Strong Grade 5
Math Performance



$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$

$$2.4 + 1.6 = 4.0$$

$$A = \frac{bh}{2}$$



**7 FULL-LENGTH
PRACTICE TESTS**

Realistic style
questions



**STANDARDS-
ALIGNED**

Covers all Grade 5
standards



BUILD CONFIDENCE

Target weak areas
and improve
performance



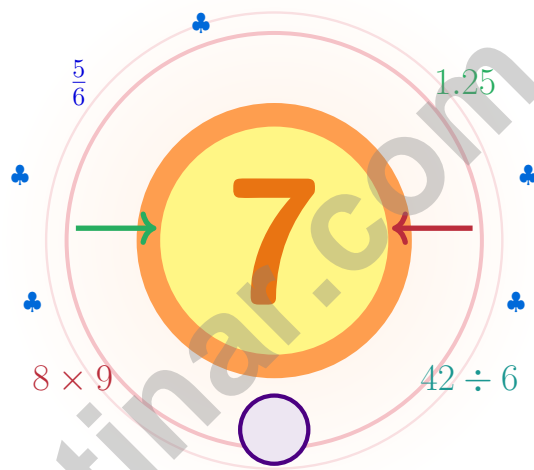
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. **SUCCEED** FOREVER. ★

7 Arizona AASA Grade 5 Math Practice Tests

Seven full tests woven into one calm, steady practice path



Seven full tests, a concise review, and helpful support that turns Grade 5 practice in The Grand Canyon State into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari



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Step Into the Practice Path, Arizona

A seven-step expedition for curious Grade 5 thinkers

For Every Curious Mind in Arizona

This practice book is your steady companion for seven tests, not a place to be perfect. Like the Grand Canyon, math problems often look enormous at first glance. Up close, they reveal layer after layer of clear, solvable steps.

Use these seven tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up across seven rounds.

Watch

Watch what the problem actually wants from you.

Choose

Choose the operation, model, or table that fits.

Polish

Check labels, units, and the final word of the question.

A strong habit for Arizona mathematicians: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

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Seven Tests, Seven Lessons

A simple routine that turns practice into progress

Step 1: Open

Open the warm-up review and use it.

Spend a few minutes waking up your memory before the test begins.

Step 2: Test

Take the test with steady focus.

Work in a calm spot and focus on careful thinking before speed.

Step 3: Reflect

Notice what was sharp and what was shaky.

Circle missed questions and notice which topics keep showing up.

Step 4: Sharpen

Practice the shaky skills before the next round.

Read the explanation, repair the work, and bring that lesson into the next test.

A Good 7-Week Arizona Rhythm

Week 1	Take Test 1 and notice your strongest starting skills.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and sharpen fraction and decimal work.
Week 4	Take Test 4 and pay close attention to labels and units.
Week 5	Take Test 5 and compare your habits with your first test.
Week 6	Take Test 6 and practice staying calm during tricky questions.
Week 7	Take Test 7 and reach the canyon rim with steady, confident work.



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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

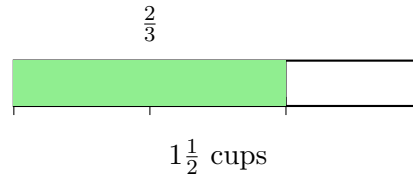
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) A recipe calls for $1\frac{1}{2}$ cups of flour. If you make $\frac{2}{3}$ of the recipe, how much flour do you need?

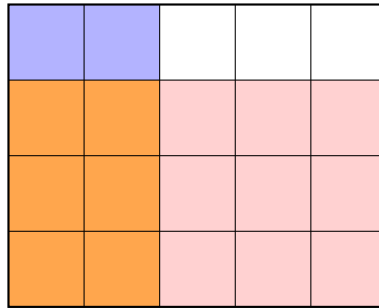


- A. $\frac{2}{3}$ cup
- B. $1\frac{1}{2}$ cups
- C. $1\frac{1}{3}$ cups
- D. 1 cup
- 2) Which statement is true without evaluating?
- A. $9 \times (6 + 4) = 9 + 6 + 4$
- B. $9 \times (6 + 4) = 9 \times 6 + 4$
- C. $9 \times (6 + 4) = 9 + 6 \times 4$
- D. $9 \times (6 + 4) = 9 \times 6 + 9 \times 4$
- 3) A solid is built with 5 equal layers. Each layer has 12 unit cubes. What is the total volume?

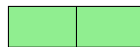
Record your answer in the space provided.



- 4) Below is an area model for $\frac{2}{5} \times \frac{3}{4}$. Which statement is true?



- A. The overlap covers 6 out of 20 squares. C. The overlap covers 6 out of 12 squares.
 B. The product is $\frac{5}{9}$. D. The product is $\frac{2}{4}$.
- 5) A bottled water company sells water in packs of 6. Each bottle holds 0.5 liters. How many liters are in one pack?
- A. 2.5 liters C. 3.5 liters
 B. 4.0 liters D. 3.0 liters
- 6) One fourth mile of trail is divided into 6 equal sections. Which division equation finds each share?
- A. $6 \div \frac{1}{4} = n$ C. $\frac{1}{4} \times 6 = n$
 B. $\frac{1}{4} \div 6 = n$ D. $6 + \frac{1}{4} = n$
- 7) What is $\frac{1}{10} \div 2$?



$\frac{1}{10}$ split in 2

- A. $\frac{1}{20}$ C. $\frac{1}{8}$
 B. $\frac{1}{10}$ D. $\frac{1}{5}$



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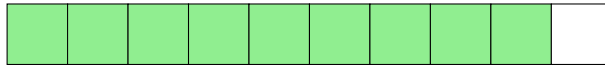
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- 1) Bar shows 10 parts, 9 shaded. Remove $\frac{1}{5}$ of the whole.



$$\frac{9}{10} - \frac{1}{5} = ?$$

- A. $\frac{7}{10}$
 C. $\frac{5}{10}$
 B. $\frac{8}{10}$
 D. $\frac{11}{10}$
- 2) Which number is 10 times greater than 85?
- A. 95
 C. 8500
 B. 850
 D. 85000
- 3) An area model shows multiplication. What is 1.5×4 ?



- A. 5
 C. 6
 B. 5.5
 D. 6.5
- 4) A gardener cuts a 1-foot edging strip into pieces that are each $\frac{1}{3}$ foot long. How many pieces can she cut?
- A. 3 pieces
 C. 4 pieces
 B. 2 pieces
 D. 6 pieces



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- 1) A teacher drew a place-value chart for 5.693 and asked students to identify which place is 10 times the hundredths place.

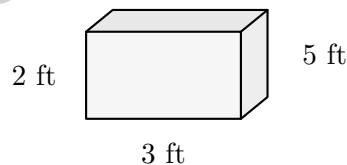
Ones	Tenths	Hundredths	Thousandths
5	6	9	3

Which place satisfies this condition?

- A. Thousandths C. Hundredths
 B. Ones D. Tenths
- 2) A rectangular prism has volume 18. Its length is 6 units and width is 3 units. What is its height?

Base: 6 units by 3 units
Volume: 18 cubic units
Height: ?

- A. 2 units C. 6 units
 B. 3 units D. 1 unit
- 3) A bookcase is a rectangular prism that is 3 feet wide, 2 feet deep, and 5 feet tall. What is its volume in cubic feet?



- A. 18 cubic feet C. 30 cubic feet
 B. 25 cubic feet D. 36 cubic feet



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1) Evaluate: $(6 + 9) \times (2 \times 2) - 12$

A. 40

C. 52

B. 60

D. 48

2) The calculated cost before rounding is \$27.655. Round to the nearest cent (hundredth) for the price tag.

A. \$27.65

C. \$27.70

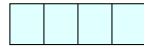
B. \$28.00

D. \$27.66

3) Find: $9 \div \frac{1}{2}$.

Record your answer in the space provided.

4) What is $\frac{1}{3} \div 4$?



$\frac{1}{3}$ split into 4

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

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

B. $\frac{1}{12}$

D. $\frac{1}{7}$

5) Volume 144 cm^3 , base area 18 cm^2 . Height =?

A. 8 cm

C. 126 cm

B. 2592 cm

D. 162 cm



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 D is correct.** **(5.NF.B.6)** $\frac{2}{3} \times 1\frac{1}{2} = \frac{2}{3} \times \frac{3}{2} = \frac{6}{6} = 1$ cup.
- 2) **Choice D is correct.** **(5.OA.A.2)** The distributive property lets 9 multiply both parts of the sum: 9×6 and 9×4 .
- 3) **The correct answer is 60.** **(5.MD.C.4)** Multiply the number of cubes in each layer by the number of layers: $12 \times 5 = 60$. The volume is 60 cubic units.
- 4) **Choice A is correct.** **(5.MD.C.5)** The blue region is 2 out of 5. The red region is 3 out of 4. The double-shaded overlap has 6 squares out of a total of 20, so the product is $\frac{6}{20}$.
- 5) **Choice D is correct.** **(5.MD.C.5)** Multiply: $6 \times 0.5 = 3.0$ liters per pack.
- 6) **Choice B is correct.** **(5.NF.B.7)** The unit fraction is the amount being shared, so divide $\frac{1}{4}$ by 6. The equation is $\frac{1}{4} \div 6 = n$.
- 7) **Choice A is correct.** **(5.NF.B.4)** $\frac{1}{10} \div 2 = \frac{1}{10} \times \frac{1}{2} = \frac{1}{20}$.
- 8) **Choice C is correct.** **(5.NF.A.2)** The denominator 10 is multiplied by 3 to make 30. Multiply the numerator by 3: $\frac{9}{10} = \frac{27}{30}$.
- 9) **Choice A is correct.** **(5.MD.A.1)** Two cups is 16 fluid ounces. Maria already measured 1 cup 4 fluid ounces, or 12 fluid ounces, so $16 - 12 = 4$ fluid ounces remain.
- 10) **Choice D is correct.** **(5.NBT.A.1)** In 87.456, the digit 4 is in the tenths place, which has a value of 0.4 or $\frac{4}{10}$.
- 11) **The correct answer is 9 ft³.** **(5.MD.C.5)** Box A has volume $8 \times 4 \times 3 = 96$ cubic feet. Box B has volume $7 \times 5 \times 3 = 105$ cubic feet, so Box B is greater by 9 cubic feet.
- 12) **Choice A is correct.** **(5.G.B.3)** A hexagon has 6 sides and 6 vertices. Because all sides and angles are equal, it is a regular hexagon.
- 13) **The correct answer is 30000.** **(5.NBT.A.2)** Multiply the nonzero parts first: $3 \times 5 \times 2 = 30$. The three factor zeros make the final product 30,000.
- 14) **Choice A is correct.** **(5.NF.A.2)** Since 7 and 5 share no common factors other than 1, their LCM is $7 \times 5 = 35$.
- 15) **Choice D is correct.** **(5.NBT.B.6)** $1,248 \div 24 = 52$ crates. Check: $24 \times 52 = 1,248$.
- 16) **Choice D is correct.** **(5.NF.B.4)** $4\frac{1}{2} = \frac{9}{2}$ and $2\frac{1}{3} = \frac{7}{3}$. Multiply: $\frac{9}{2} \times \frac{7}{3} = \frac{63}{6} = 10\frac{1}{2}$ square meters.
- 17) **Choice B is correct.** **(5.NBT.A.2)** One pen costs 0.45. For 100 pens, move the decimal two places right: $0.45 \times 100 = 45$.
- 18) **Choice D is correct.** **(5.OA.A.1)** Work from the center outward: $50 - 20 = 30$, then $30 \div 2 = 15$, then $15 + 5 = 20$. The braces just hold that final value, 20.
- 19) **Choices A, B are correct.** **(5.NBT.B.7)** A gives $1.00 - 0.55 = 0.45$, and B gives $2.70 - 2.25 = 0.45$. C gives 0.35, and D gives 0.55.
- 20) **Choice A is correct.** **(5.NBT.A.2)** The correct answer is 7, $500 \div 100 = 75$. The student's answer of 750 is what you get when dividing by 10 instead.
- 21) **Choice B is correct.** **(5.MD.C.3)** When sections do not overlap, each cubic unit belongs to exactly one section. Adding gives the whole solid's volume.
- 22) **Choice A is correct.** **(5.NF.B.4)** The shaded strip is $\frac{1}{5}$ unit wide for each unit of height. With 2 units of height, the area is $2 \times \frac{1}{5} = \frac{2}{5}$ square unit.
- 23) **Choice C is correct.** **(5.MD.A.1)** 1 centimeter = 10 millimeters. Multiply: $85 \times 10 = 850$ mm.
- 24) **Choice D is correct.** **(5.NBT.A.2)** To convert meters to kilometers, divide by 1,000: $4,800 \div 1,000 = 4.8$. The road is 4.8 km long.
- 25) **Choice D is correct.** **(5.MD.A.1)** Since 12 inches = 1 foot, $\frac{1}{2}$ foot = $12 \div 2 = 6$ inches.
- 26) **Choice B is correct.** **(5.MD.C.5)** The base area is $12 \times 3 = 36$ square centimeters. Since $144 \div 36 = 4$, the height is 4 cm.
- 27) **Choice A is correct.** **(5.G.A.1)** If the y-coordinate is 0, the point is on the horizontal line (x-axis).
- 28) **Choice B is correct.** **(5.NBT.A.4)** The hundredths digit is 4. The thousandths digit is 4. Since $4 < 5$, keep hundredths as 4. So \$5.944 rounds to \$5.94.



Dear Math Student,

★ One of the best things about finishing seven tests is that you saw your mistakes clearly—and that is good news. Mistakes are not failures; they are information that helps you improve. ★

◇ **A professional habit:** when something goes wrong, you don't quit. You ask, "What happened?" and you fix it. That's how strong learners grow. ◇

Quick Mistake Check

- **Read error:** did I miss a word like "most" or "least"?
- **Math error:** did I add/subtract/multiply incorrectly?
- **Setup error:** did I choose the wrong operation?
- **Fix and learn:** write one short note so you remember next time.

You earned this: seven tests later, you're smarter, stronger, and more confident.

Reach me at reza@testinar.com if you want to share your progress.

Reza Nazari & Jay Daie

Your Math Coaches (Learn and Grow)

PRACTICE TODAY. PERFORM TOMORROW.

Success in math starts with practice! This book provides the **practice, confidence, and skills** your child needs to excel on the Grade 5 Math test and beyond.

KEY BENEFITS:



TARGETED PRACTICE

Focus on the most important Grade 5 math skills.



STANDARD-ALIGNED

All tests align with state standards for Grade 5.



BUILD CONFIDENCE

Strengthen skills, reduce test anxiety, and boost confidence.



IMPROVE PERFORMANCE

Timed practice helps improve speed and accuracy.



ACHIEVE SUCCESS

Develop strong test-taking skills and achieve your best score!

PERFECT FOR:

✓ Classroom Practice

✓ Homework Help

✓ Test Preparation

✓ Summer Learning

✓ On-the-Go Practice

✓
PRACTICE
PREPARE
SUCCEED
★★★

STRONG SKILLS. BRIGHT FUTURE.

Give your child the tools they need to succeed in math and in life!



Visit testinar.com/math5 for more Grade 5 math resources and practice materials!



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Quality resources you can trust.



DESIGNED
FOR SUCCESS

Proven practice for real results.



SUPPORT
YOUR CHILD

Every step of the way.