

5

FULL-LENGTH

Arizona AASA

GRADE 5 MATH

★ PRACTICE TESTS ★



**5 FULL-LENGTH
PRACTICE TESTS**



**COMPLETE
STANDARDS
REVIEW**



**SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!**

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



$$12 \times 3 = 36$$



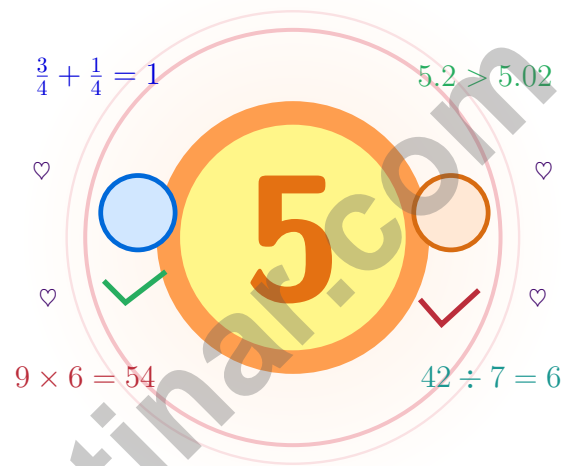
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Arizona AASA Grade 5 Math Practice Tests

Five full tests woven into one calm, steady quest



Five full tests, a friendly quick review, smart strategy pages, and student-tested support that turn Grade 5 practice in The Grand Canyon State into a steady quest of real growth.

Jay Daie and Reza Nazari



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Arizona, Your Five-Test Quest Begins

Five full tests woven into one calm, steady quest

Dear Arizona Math Quest Crew

This book is your practice zone, not a place to be perfect. Each of the five tests gives you a chance to notice clues, choose a strategy, check your thinking, and come back stronger for the next round. Like the Grand Canyon, math problems often look enormous at first glance. Up close, they reveal layer after layer of clear, solvable steps.

Some questions will feel easy right away. Some will make you slow down, draw, estimate, or retry. That is excellent news. It means your math brain is doing real work.

Notice

Notice everything the problem says, shows, and asks.

Sketch

Sketch a quick model, table, or number line.

Confirm

Confirm your answer with a quick estimate.

A strong quest habit for Arizona: slow down, write neatly, estimate before you solve, and keep going even when a problem looks tricky at first. That is exactly how confident math students are built.

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Scan me

Your Five-Step Quest Plan

A simple routine that turns five tests into real growth

Step 1: Read

Read the quick review pages first.
Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Try

Try one full test with full attention.
Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Reflect

Reflect on which skills want more sunlight.
Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Lift

Lift those skills before the next test.
Read the explanation, repair the work, and carry 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) Rewrite $\frac{1}{3}$ and $\frac{1}{4}$ with a common denominator of 12.


$$\frac{1}{3} = \frac{?}{12}$$


$$\frac{1}{4} = \frac{?}{12}$$

- A. $\frac{4}{12}$ and $\frac{3}{12}$
- B. $\frac{3}{12}$ and $\frac{4}{12}$
- C. $\frac{2}{12}$ and $\frac{5}{12}$
- D. $\frac{6}{12}$ and $\frac{3}{12}$
- 2) Which expression equals 10^4 ?
- A. $10 + 10 + 10 + 10$
- B. 10×4
- C. $10 \times 10 \times 10 \times 10$
- D. 40
- 3) A recipe calls for 6 cups of sugar. If you multiply the recipe by $\frac{1}{2}$, will you use more or less sugar?
- A. More sugar
- B. Cannot determine
- C. The same amount
- D. Less sugar
- 4) From the origin, a point is 4 units right and 2 units up. What ordered pair represents the point?

Record your answer in the space provided.



- 5) Which statement about $(30 + 20) \div 5$ and $(30 \div 5) + (20 \div 5)$ is correct?
- A. First expression is larger
 - B. Second expression is larger
 - C. They are equal
 - D. Cannot be compared
- 6) A stage block measures 7 centimeters long, 3 centimeters wide, and 3 centimeters tall. What is its volume?
- A. 63 cubic centimeters
 - B. 21 cubic centimeters
 - C. 9 cubic centimeters
 - D. 13 cubic centimeters
- 7) Find the missing addend: $2.45 + ? = 5.72$
- A. 3.27
 - B. 3.37
 - C. 3.47
 - D. 3.57
- 8) Find: 0.4×0.6 .

Record your answer in the space provided.

- 9) What is the x-coordinate of $(5, 2)$?

Record your answer in the space provided.



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1) Evaluate: $30 - \{4 + (2 \times 3)\}$

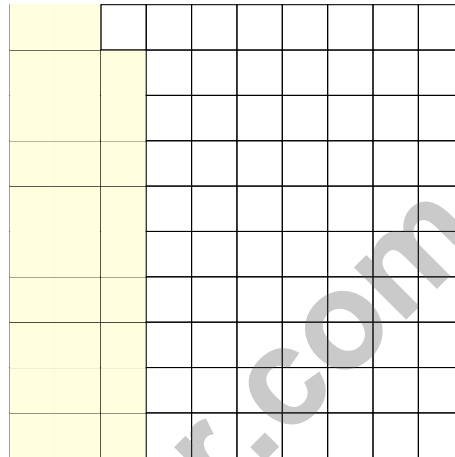
A. 20

C. 26

B. 24

D. 34

2) Decimal-grid visual: a 10×10 grid with 29 squares shaded. Write the decimal.



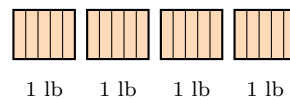
A. 0.92

C. 2.9

B. 29

D. 0.29

3) How many $\frac{1}{5}$ -pound packages can be made from 4 pounds of candy?



4 pounds split into one-fifth-pound packages

A. 10

C. 20

B. 15

D. 25



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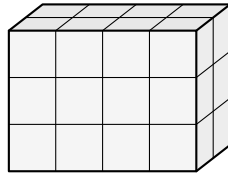
1 day = 24 hours (hr) 1 year = 52 weeks



1) Marcus says that 45×100 has 2 zeros. Is he correct?

- A. No; the product has 1 zero. C. No; the product has 4 zeros.
 B. No; the product has 3 zeros. D. Yes, he is correct.

2) A box is 4 units long, 2 units wide, and 3 units tall. How many unit cubes will completely fill the box?



- A. 9 unit cubes C. 24 unit cubes
 B. 20 unit cubes D. 18 unit cubes

3) Tile Pattern in Rectangles:



Fig 1

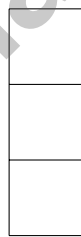


Fig 2



Fig 3

How many tiles in Figure 6?

- A. 7 C. 10
 B. 8 D. 12



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.2) $\frac{1}{3} = \frac{1 \times 4}{3 \times 4} = \frac{4}{12}$ and $\frac{1}{4} = \frac{1 \times 3}{4 \times 3} = \frac{3}{12}$.
- Choice C is correct.** (5.NBT.A.2) 10^4 means four factors of 10, so $10 \times 10 \times 10 \times 10 = 10000$.
- Choice D is correct.** (5.NF.B.5) $6 \times \frac{1}{2} = 3$ cups. Since $\frac{1}{2} < 1$, you use less sugar.
- The correct answer is (4, 2).** (5.G.A.1) Moving 4 units right gives an x -coordinate of 4. Moving 2 units up gives a y -coordinate of 2, so the point is (4, 2).
- Choice C is correct.** (5.OA.A.2) Both expressions split the same total, $30 + 20$, into 5 equal parts. Dividing the sum at once or dividing each addend by 5 and then adding gives the same value.
- Choice A is correct.** (5.MD.C.5) Use the rectangular-prism volume formula: $7 \times 3 \times 3 = 63$. So the volume is 63 cubic centimeters.
- Choice A is correct.** (5.NBT.B.7) Subtract: $5.72 - 2.45 = 3.27$. Check: $2.45 + 3.27 = 5.72$.
- The correct answer is 0.24.** (5.NBT.B.7) $4 \times 6 = 24$. Two decimal places total in factors, so 0.24.
- The correct answer is 5.** (5.G.A.2) The first number in an ordered pair is the x -coordinate.
- Choice C is correct.** (5.G.B.4) All three angles (89° , 45° , 46°) are less than 90 degrees, making this an acute triangle. Since all side lengths are different, it is scalene.
- Choice D is correct.** (5.NBT.A.2) A, B, C all equal 0.73. D: $73 \div 10 = 7.3$ (not equal to 0.73).
- Choice D is correct.** (5.NF.B.7) $8 \div \frac{1}{3} = 8 \times 3 = 24$. There are 24 sections.
- Choice D is correct.** (5.MD.C.3) Find each part first: Prism A is $7 \times 4 \times 2 = 56$ cubic meters, and Prism B is $6 \times 2 \times 1 = 12$ cubic meters. Because the parts do not overlap, add them: $56 + 12 = 68$ cubic meters.
- Choice A is correct.** (5.OA.A.2) The product part is 2×6 . Since 5 is added to that product, the phrase is "five more than the product of 2 and 6."
- Choice D is correct.** (5.NBT.A.3) In 7.84, the 8 is in the tenths place (0.8) and the 4 is in the hundredths place (0.04).
- Choice B is correct.** (5.OA.B.3) Each N value is 4 more than the matching M value: $2 + 4 = 6$, $4 + 4 = 8$, $6 + 4 = 10$, and $8 + 4 = 12$.
- Choice C is correct.** (5.G.B.4) A rectangle must have four right angles and opposite sides parallel, but the sides do not have to all be equal. A square has all equal sides, but a rectangle does not.
- Choice C is correct.** (5.NBT.A.2) A is true; B is true; C is false ($5,400 \div 100 = 54$); D is true.
- Choice D is correct.** (5.NF.A.2) Check: $\frac{1}{2} = \frac{2}{4}$, $\frac{3}{6} = \frac{1}{2} = \frac{2}{4}$, $\frac{4}{8} = \frac{1}{2} = \frac{2}{4}$. But $\frac{3}{5} \neq \frac{2}{4}$.
- Choices A, B are correct.** (5.MD.C.3) Volume measures the space inside a three-dimensional figure and is counted in cubic units. Choices C and D describe flat area or two-dimensional figures.
- Choice B is correct.** (5.OA.A.1) When an expression has only division, work from left to right. First $32 \div 4 = 8$, then $8 \div 2 = 4$.
- Choice A is correct.** (5.NF.B.5) $4 \times \frac{1}{2} = 2$. The product is less than 4 because the scaling factor is less than 1.
- Choice A is correct.** (5.MD.C.5) The known length and height make groups of $12 \times 5 = 60$ cubic centimeters. Divide the volume by 60: $360 \div 60 = 6$ cm.
- The correct answer is about 1.** (5.NF.A.2) $\frac{1}{10} \approx 0$ and $\frac{5}{6} \approx 1$, so the benchmark estimate is about 1. For scoring, accept 1, about 1, 0.9, $\frac{9}{10}$, or the exact sum $\frac{14}{15}$.
- The correct answer is $\frac{1}{4}$.** (5.NF.A.2) $\frac{2}{3} = \frac{8}{12}$. Difference: $\frac{3}{12} = \frac{1}{4}$.
- Choice B is correct.** (5.NF.B.7) The total is 6 wholes and each counted piece is one fourth. So the matching equation is $6 \div \frac{1}{4} = n$.
- Choice A is correct.** (5.NBT.A.2) $6.8 \times 100 = 680$. The student should move the decimal 2 places right, not leave it unchanged at 6.80.
- Choice A is correct.** (5.NF.B.7) Use division because we are finding how many quarter-pound groups fit in 6 pounds: $6 \div \frac{1}{4} = 24$ displays.



Master Chef's Final Tasting Notes

Greetings, Culinary Master!

★ Exquisite preparation! You've created five complete mathematical menus, carefully measuring ingredients, following recipes with precision, and presenting solutions with excellence like a master chef! Each problem required you to gather your mathematical ingredients, combine them skillfully, and create perfect solutions. Your culinary mathematical skills have reached professional chef level! ★

◇ **Here's what master chefs understand:** great cooking requires practice, patience, and precision. They test recipes multiple times, adjust their techniques, and perfect their presentation. You've done exactly that through these five tests! You've practiced your mathematical recipes until they're perfected, and now you can execute them flawlessly under any kitchen conditions! ◇

Kitchen Quality Assessment

- **Recipe Mastery:** You know all mathematical procedures and execute them perfectly!
- **Ingredient Balance:** You combine different mathematical concepts harmoniously!
- **Timing Precision:** You pace yourself efficiently without rushing or dawdling!
- **Restaurant Ready:** You're prepared to serve excellence on test day!

Remember this culinary wisdom: master chefs taste as they cook, making adjustments along the way. On test day, check your work as you proceed, ensuring each solution is properly "seasoned" with careful verification. You've practiced these recipes five times trust your expertise and cook with confidence!

Want to share your signature mathematical recipe or discuss an elegant solution technique? Send your culinary innovations to reza@testinar.com. I appreciate mathematical gastronomy!

Reza Nazari & Jay Daie

Your Math Coaches (You're Getting Stronger!)

5 FULL-LENGTH TESTS. STRONG SKILLS. BRIGHTER RESULTS.



Build confidence and master math with **5 full-length** practice tests designed to reflect the real test experience. This book provides the practice, review, and support students need to succeed in Grade 5 and beyond!

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Covers all essential Grade 5 math topics with clear explanations and examples.



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Strengthen key math skills through a wide variety of practice questions.



WORD PROBLEMS

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



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Build Confidence
with consistent
practice



Improve Accuracy
and problem-
solving skills



Time Management
strategies for
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