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Arkansas ATLAS

GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY

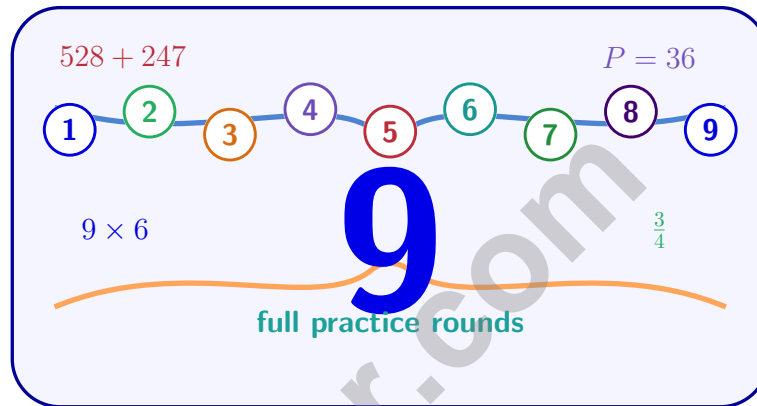


10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 Arkansas ATLAS Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Arkansas, Start Your Nine-Round Math Trail

A calm Grade 3 path from first try to confident finish

This book gives you nine chances to practice like a thoughtful Arkansas ATLAS test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Arkansas has Ozark hills, diamond fields, river bends, forest paths, and lively school communities, where careful steps matter. Strong math follows that same idea: solve what the question asks, choose a useful tool, show the work, and check before moving on.

Your Arkansas Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear Arkansas review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In Arkansas, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with ATLAS support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A Arkansas standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.



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1) Which statement is true about the products of even and odd numbers?

- A. Even \times odd is always odd C. Even \times odd is always even
 B. Even \times even is always odd D. Odd \times odd is always even


2) Noah has 3 groups of stickers. Each group has 4 red and 3 blue stickers. Which expanded equation finds the total?

- A. $3 \times (4 + 3) = 21$ C. $3 + 4 + 3 = 10$
 B. $3 \times 4 = 12$ D. $3 \times 4 + 3 \times 3 = 21$

3) If $5 \times 70 = 350$, what is 70×5 ? Why?

- A. 350; the order doesn't matter in multiplication (commutative property).
 B. 75; we add the two numbers.
 C. 3500; 70×5 is bigger than 5×70 .
 D. 350; but for a different reason—we add a zero because of the 0 in 70.

4) A rectangle has 8 equal parts. How many parts make $\frac{1}{2}$?



9) Which equation is false?

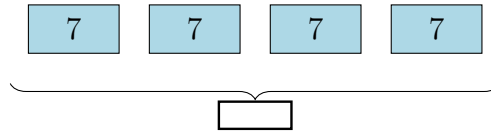
A. $7 \times (2 + 8) = 7 \times 2 + 7 \times 8$

C. $5 \times (6 + 1) = 5 \times 6 + 5 \times 1$

B. $9 \times (3 + 4) = 9 \times 3 + 9 \times 4$

D. $6 \times (5 + 2) = 6 \times 5 - 6 \times 2$

10) A bar shows 4 equal groups. Each group has 7 stickers. How many stickers are there in total?



A. 28

C. 24

B. 25

D. 30

11) Which is NOT equivalent to $\frac{2}{4}$?

A. $\frac{4}{8}$

C. $\frac{3}{6}$

B. $\frac{1}{2}$

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

12) Which shape is NOT a quadrilateral?

A. Parallelogram

C. Rhombus

B. Triangle

D. Square

13) Lily has 2 equal pieces of a sandwich. She eats 1 piece. What fraction did she eat?

A. $\frac{1}{4}$

C. $\frac{1}{2}$

B. $\frac{2}{3}$

D. $\frac{1}{3}$



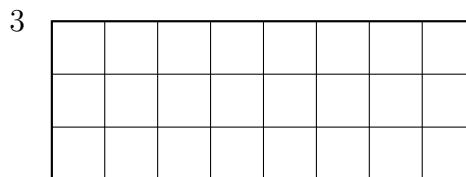
1) A library has 400 books. After a book sale, the library has 267 books left. How many books were sold?

A. 133

C. 233

B. 143

D. 167



2)

How many unit squares tile this wide rectangle?

A. 11

C. 24

B. 18

D. 83

3) A bar graph shows students who like fruit. Apples: 2 units (scale: 10). Oranges: 3 units (scale: 10). Bananas: 1 unit (scale: 10). How many students like apples or oranges?

A. 30

C. 50

B. 40

D. 60

4) A line plot shows water bottle volumes in milliliters: 250, $250\frac{1}{2}$, 251, $251\frac{1}{2}$, 252 (using halves for simplicity in Grade 3 scale). There are 2 X's at 250 mL. How many more X's would we need at $250\frac{1}{2}$ to make the total 9 if the others have 1 X each?

A. 2

C. 4

B. 3

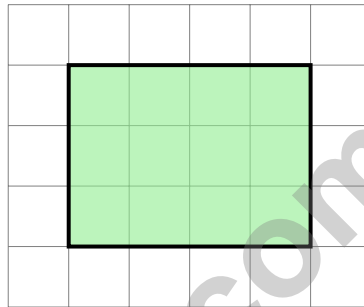
D. 5



5) Which is a property that squares and rectangles both have?

- A. All sides are equal in length C. They have exactly one pair of parallel sides
 B. They have no right angles D. All angles are right angles

6) Count the shaded square units on this grid without using multiplication. Is it possible?



- A. Yes, you can count them one by one C. Only if the shape is a square
 B. No, you must multiply D. Only if you know the perimeter

7)

Water Bottle	Amount
Monday	2 L
Tuesday	1500 mL
Wednesday	2500 mL

On which day did Lily drink the most water?

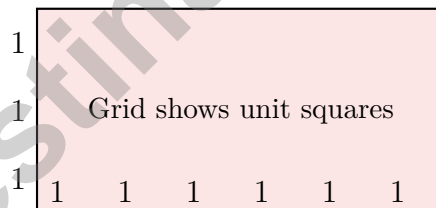
- A. Monday C. Wednesday
 B. Tuesday D. All equal



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- 1) A square has a side length of 5 cm. What is the area of the square?
- A. 20 cm^2 C. 30 cm^2
 B. 10 cm^2 D. 25 cm^2
- 2) A rectangular carpet is 10 centimeters long and 5 centimeters wide. What is its area?
- A. 15 sq cm C. 50 sq cm
 B. 30 sq cm D. 55 sq cm
- 3) Ben says that a circle divided into 6 equal parts has each part as $\frac{1}{5}$. Is this correct?
- A. Yes, because $6 - 1 = 5$ C. Yes, because 5 is a unit fraction
 B. No, each part is $\frac{1}{6}$ D. No, the circle must have 5 parts
- 4) Sam has fact cards for $3 \times 6 = 18$. Which division fact is related?
- A. $18 \div 3 = 6$ C. $6 \div 3 = 2$
 B. $18 \div 2 = 9$ D. $18 + 3 = 21$

5)



The rectangle above shows 6 unit squares across and 3 unit squares down. Which multiplication statement represents this rectangle's area?

- A. $6 + 3 = 9$ C. $3 + 3 + 3 + 3 + 3 + 3 = 18$
 B. $6 \times 3 = 18$ D. $9 \times 2 = 18$



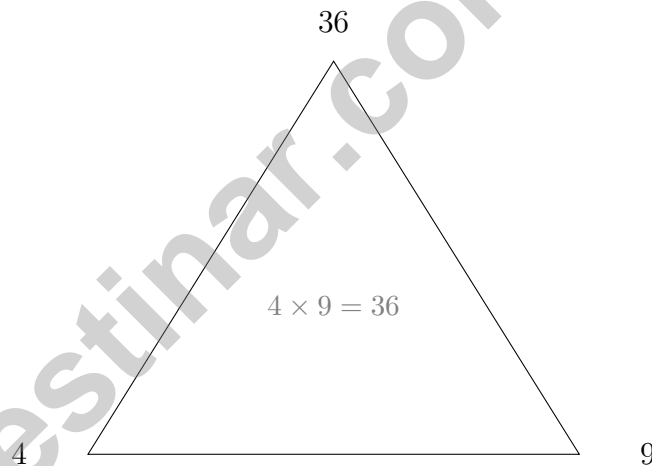
6) Look at these two numbers: 245 and 255. When rounded to the nearest 100, which one gets larger?

- A. Both round to the same value C. 255 becomes bigger (300)
 B. 245 becomes bigger (300) D. Cannot tell

7) A soup recipe needs 1 liter of broth. Lily already poured 750 mL. How much more does she need in milliliters?

- A. 100 mL C. 250 mL
 B. 150 mL D. 500 mL

8) Look at the fact-family triangle. Which two divisions can you write?



- A. $36 \div 4 = 9$ and $36 \div 9 = 4$ C. $4 + 9 = 13$ and $36 - 13 = 23$
 B. $36 \div 9 = 36$ and $36 \div 4 = 36$ D. $9 \div 4 = 2$ and $36 \div 2 = 18$



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Practice Test Answer Keys

How to use this section with a Grade 3 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(3.CAR.5)** An even number times any other whole number is always even, because the result is a multiple of 2.
- 2) **Choice D is correct.** **(3.CAR.3)** The expanded distributive equation is $3 \times 4 + 3 \times 3 = 12 + 9 = 21$.
- 3) **Choice A is correct.** **(3.CAR.4)** $70 \times 5 = 350$, the same as $5 \times 70 = 350$. The commutative property of multiplication says you can swap the factors and get the same product: $5 \times 7 \times 10 = 7 \times 5 \times 10 = 350$.
- 4) **The correct answer is 4 parts.** **(3.NPV.7)** Half of 8 is 4.
- 5) **Choice A is correct.** **(3.GM.9)** On Scale 1, the left side is 500 g and the right side is 400 g, so the left side weighs more. On Scale 2, both sides are equal.
- 6) **The correct answer is 64 tiles.** **(3.GM.5)** This emphasizes improvised/real units (square meter tiles). Count the rows: 8 rows with 8 tiles per row. Total: $8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 = 64$ square meter tiles cover the garden.
- 7) **Choice D is correct.** **(3.NPV.1)** The tens digit is 5. Since $5 \geq 5$, round up: 158 rounds to 200.
- 8) **Choice D is correct.** **(3.GM.6)** The picture shows 5 columns with 2 circles in each column. So $5 \times 2 = 10$ or $2 \times 5 = 10$.
- 9) **Choice D is correct.** **(3.GM.6)** This equation uses subtraction instead of addition. The correct form is $6 \times (5 + 2) = 6 \times 5 + 6 \times 2$.
- 10) **Choice A is correct.** **(3.CAR.8)** Multiply: $4 \times 7 = 28$ stickers. The unknown is 28.
- 11) **Choice D is correct.** **(3.NPV.11)** $\frac{2}{4} = \frac{1}{2}$. Choices A, B, and C are all equivalent. Only $\frac{3}{4}$ is different.
- 12) **Choice B is correct.** **(3.GM.3)** A triangle has 3 sides. A quadrilateral has 4 sides, so a parallelogram, rhombus, and square are all quadrilaterals, but a triangle is not.
- 13) **Choice C is correct.** **(3.NPV.5)** Lily ate 1 out of 2 pieces, which is $\frac{1}{2}$.
- 14) **Choice D is correct.** **(3.CAR.4)** $40 \div 5 = 8$ because $8 \times 5 = 40$.
- 15) **Choice D is correct.** **(3.NPV.9)** $\frac{4}{4}$ means all 4 fourths. That is one whole, so the distance from 0 is 1.
- 16) **Choice B is correct.** **(3.NPV.11)** $\frac{1}{4} = \frac{2}{8}$. Both represent one-quarter of the bottle (see the shaded regions are equal).
- 17) **Choices A and B are correct.** **(3.NPV.10)** Choice A is correct because every unit fraction has a numerator of 1. Choice B is correct because the denominator tells how many equal parts the whole is divided into. Choice C is false because unit fractions can be added together. Choice D is false because $\frac{1}{8}$ is smaller than $\frac{1}{2}$. Choice E is false because the numerator of a unit fraction is always 1, not equal to the denominator.
- 18) **Choice B is correct.** **(3.GM.6)** A 6×1 grid contains exactly 6 unit squares arranged in a row.
- 19) **Choice C is correct.** **(3.CAR.7)** Step 1: After eating: $18 - 7 = 11$ apples. Step 2: Add new: $11 + 4 = 15$ apples. (Choice A is step 1 only.)
- 20) **Choice C is correct.** **(3.NPV.7)** Eighths are small pieces, so $\frac{1}{8}$ is close to 0 compared to halves or thirds.
- 21) **Choice D is correct.** **(3.CAR.9)** In a fact family, $45 \div 5 = 9$ and $45 \div 9 = 5$. Division reverses multiplication.
- 22) **Choice D is correct.** **(3.GM.6)** Square: $4 \times 4 = 16$ square units.
- 23) **Choice B is correct.** **(3.DA.2)** Blue is 4 units, tallest. $4 \times 10 = 40$ cans, the most.
- 24) **Choice D is correct.** **(3.NPV.7)** $20 \div 5 = 4$. Divide the total beads by the number of bracelets.
- 25) **Choice C is correct.** **(3.GM.11)** The minute hand points to 48 (just before 10), and the hour hand is nearly at 2, meaning the hour is 1. The time is 1 : 48.
- 26) **The correct answer is 3.** **(3.NPV.8)** $\frac{3}{4}$ is the third tick from 0.
- 27) **Choice D is correct.** **(3.GM.7)** Area = length \times width = $10 \times 3 = 30$ square feet.
- 28) **Choice A is correct.** **(3.NPV.11)** $\frac{6}{2}$ means 6 halves. 2 halves make 1 whole, so $6 \div 2 = 3$ wholes. The bar is divided into 3 sections (thick lines).
- 29) **Choice B is correct.** **(3.NPV.5)** When comparing fractions with the same numerator (3), look at the denominator: fifths are bigger pieces than fourths. So $\frac{3}{5}$ (3 large pieces) is less than $\frac{3}{4}$ (3 slightly larger pieces). Key rule: smaller denominator = bigger pieces.



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Hi, Curious Scientist!

◇ 9 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Scientist

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9
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