

5

Arkansas

ATLAS

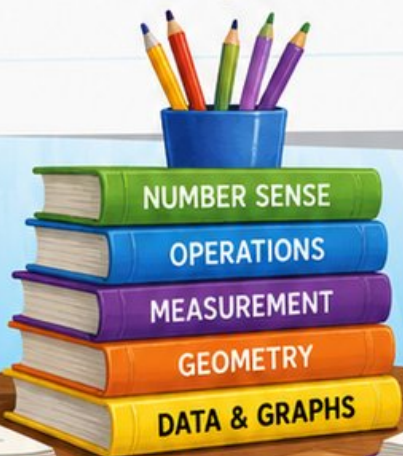
GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations

$24 \div 3 = 8$



5 FULL-LENGTH  
PRACTICE TESTS



STANDARDS-  
ALIGNED  
PRACTICE



DETAILED  
ANSWER KEYS



CLEAR  
EXPLANATIONS  
TO HELP YOU SUCCEED

# 5 Arkansas ATLAS Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Five focused 30-question checkpoints for Grade 3 math: facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome to the Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

## To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Arkansas ATLAS. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Arkansas has Ozark hills, river bends, diamond fields, and trail towns that reward steady explorers. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

### Notice

Circle key words, units, and numbers before you start.

### Build

Use arrays, number lines, equations, tables, or sketches.

### Verify

Ask, “Does this answer fit the question?”

**Five-checkpoint promise:** I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

# How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

**Best review habit:** Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



## What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	Turn missed items into a clear next step.
Standards Reference	See how Arkansas Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. That mix gives students practice with quick choices, careful reasoning, and short written answers.



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For more practice  
& answers

# Table of Contents

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

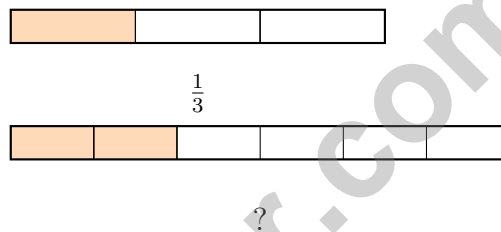
- A.  $\frac{1}{2}$   
 B.  $\frac{3}{6}$

- C.  $\frac{4}{8}$   
 D.  $\frac{2}{3}$

2) What does the denominator in a unit fraction tell you?

- A. How many parts are shaded       C. The name of the color  
 B. How many equal parts the whole is divided into       D. How big one part is

3) Sam eats 1 slice from a 3-slice pizza. Which fraction is equivalent to what he ate?



- A.  $\frac{2}{6}$   
 B.  $\frac{1}{2}$

- C.  $\frac{1}{4}$   
 D.  $\frac{2}{3}$

4) If a number line from 0 to 1 is split into 3 equal parts, what fraction marks the first partition?

- A.  $\frac{1}{2}$   
 B.  $\frac{1}{3}$

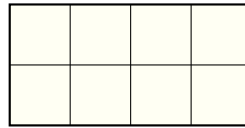
- C.  $\frac{1}{4}$   
 D.  $\frac{1}{5}$

5) Eli has two shapes. Shape 1 is a  $2 \times 10$  rectangle. Shape 2 is a  $4 \times 5$  rectangle. Do the shapes have the same area?

- A. Yes, both are 20 square units       C. No, Shape 2 has 9 square units  
 B. No, Shape 1 has 12 square units       D. Cannot determine



6) How many unit squares ( $1\text{ cm} \times 1\text{ cm}$ ) are needed to cover a  $4\text{ cm}$  by  $2\text{ cm}$  rectangle?



4 cm

- A. 6 unit squares                       C. 10 unit squares  
 B. 8 unit squares                       D. 12 unit squares

7) Round 614 to the nearest 100. What is the answer?

8) A picture graph shows books read in a month. Each book icon is 2 books. Raj read 4 icons. How many books did Raj read?

- A. 6     C. 10  
 B. 8     D. 12

9)

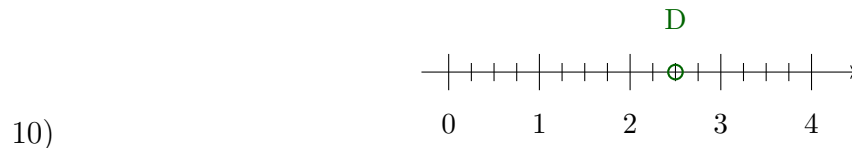
Item	Mass
Watermelon	5 kg
Pineapple	2 kg

Eli carries a watermelon and a pineapple. What is the total mass?

- A. 3 kg     C. 7 kg  
 B. 5 kg     D. 10 kg



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The number line from 0 to 4 is divided into fourths. Point  $D$  is shown. What mixed number is point  $D$ ?

A.  $2\frac{1}{4}$

C.  $2\frac{3}{4}$

B. 3

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

11) What fraction is equivalent to both  $\frac{2}{4}$  and  $\frac{3}{6}$ ?

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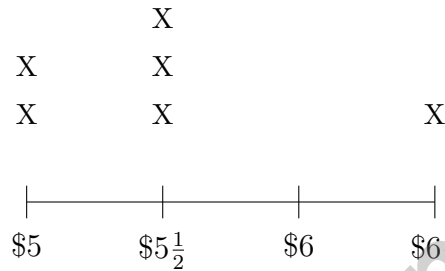


6) If you have  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$ , what fraction is the total?

- A.  $\frac{4}{6}$   
 B.  $\frac{1}{6}$

- C.  $\frac{4}{24}$   
 D.  $\frac{1}{4}$

7) A line plot shows lunch amounts in dollars: 5,  $5\frac{1}{2}$ , 6,  $6\frac{1}{2}$ .

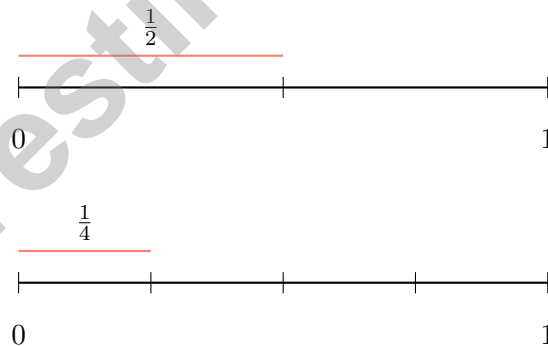


How many lunch costs were  $\$5\frac{1}{2}$ ?

- A. 2  
 B. 3

- C. 4  
 D. 6

8) Look at these two number lines. Which unit fraction is bigger?

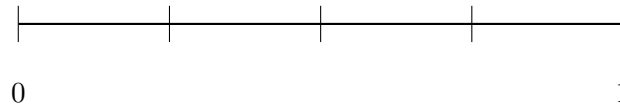


- A.  $\frac{1}{2}$  is bigger  
 B.  $\frac{1}{4}$  is bigger

- C. They are the same  
 D.  $\frac{1}{4}$  is twice as big



- 1) A number line from 0 to 1 is divided into 4 equal parts. Which fraction names the first tick mark after 0?



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

4 yards



- 2) 10 yards

A rectangular field measures 10 yards by 4 yards. Find the area.



- 3) Aiden buys 6 packs of trading cards with 4 cards in each pack. He loses 8 cards. How many cards does he have now?

- A. 16                       C. 24  
 B. 22                       D. 32



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- 4) A bar graph shows books. Maya's bar is 7 units (scale: 2 books per unit). Leo's bar is 5 units (scale: 2 books per unit). How many fewer books does Leo have than Maya?

- 5) Kai has 20 toy cars. He puts 5 toy cars in each group. Which division shows the number of groups?

A.  $20 \div 5 = 4$

C.  $20 + 5 = 25$

B.  $20 \div 4 = 4$

D.  $20 - 5 = 15$

- 6) This area model shows  $4 \times 60$ . What is the missing part?

$6 \times 10$	$6 \times 10$	$6 \times 10$	$6 \times 10$
---------------	---------------	---------------	---------------

$$4 \times 60 = (4 \times 6 \times 10) = ?$$

A. 24

C. 240

B. 60

D. 2400

- 7) Which of these equals  $8 \times 3$ ?

A.  $8 + 3 = 11$

C.  $8 + 8 = 16$

B.  $3 \times 3 = 9$

D.  $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 24$



## 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 D is correct.** **(3.NF.A.3b)**  $\frac{2}{4}$  equals  $\frac{1}{2}$  (divide by 2). Choices A, B, and C are all equivalent to  $\frac{1}{2}$ . Only  $\frac{2}{3}$  is different.
- 2) **Choice B is correct.** **(3.NF.A.1)** The denominator (the bottom number) tells how many equal parts the whole is divided into.
- 3) **Choice A is correct.** **(3.NF.A.3)** Sam ate  $\frac{1}{3}$ , which is equivalent to  $\frac{2}{6}$ .
- 4) **Choice B is correct.** **(3.NF.A.2a)** Splitting from 0 to 1 into three equal parts gives  $\frac{1}{3}$  for each.
- 5) **Choice A is correct.** **(3.MD.C.5)** Shape 1:  $2 \times 10 = 20$  square units. Shape 2:  $4 \times 5 = 20$  square units. They have equal areas.
- 6) **Choice B is correct.** **(3.MD.C.5a)**  $4 \text{ cm} \times 2 \text{ cm} = 8$  square centimeters, which equals 8 unit squares of 1 cm each.
- 7) **The correct answer is 600.** **(3.NBT.A.1)** The tens digit is 1. Since  $1 < 5$ , round down: 614 rounds to 600.
- 8) **Choice B is correct.** **(3.MD.B.3)**  $4 \times 2 = 8$  books.
- 9) **Choice C is correct.** **(3.MD.A.2)** Add:  $5 + 2 = 7$  kg.
- 10) **Choice D is correct.** **(3.NF.A.2b)** Point  $D$  is at 2.5. Count from 0: the 10th fourth-mark is at  $\frac{10}{4} = 2\frac{2}{4} = 2\frac{1}{2}$ .
- 11) **The correct answer is  $\frac{1}{2}$ .** **(3.NF.A.3a)**  $\frac{2}{4} = \frac{3}{6} = \frac{1}{2}$ .
- 12) **Choice B is correct.** **(3.NBT.A.3)** The array shows 5 columns of 10 dots each. So  $5 \times 10 = 50$  units total.
- 13) **Choice B is correct.** **(3.NF.A.3d)** Same numerator (4): four fourths equals one whole bar, while four eighths is only half the bar. Fourths are bigger pieces than eighths, so  $\frac{4}{4} > \frac{4}{8}$ .
- 14) **Choices A and B are correct.** **(3.OA.B.6)** A and B are correct because they show the two division facts from  $7 \times 8 = 56$ . C is false because  $72 \div 9 = 8$ , not 7. D is false because  $20 \div 5 = 4$  and  $5 \div 20$  is not a whole number; they are different. E is partially true but is a distractor because it doesn't test understanding of the inverse relationship.
- 15) **Choice C is correct.** **(3.MD.C.7)** Area =  $6 \times 3 = 18$  square units. The dots show that all squares are included.
- 16) **Choice C is correct.** **(3.MD.B.4)** At  $2\frac{3}{4}$ , there are exactly 2 X's.
- 17) **Choice B is correct.** **(3.OA.D.8)** Step 1: Add the marbles:  $9 + 6 = 15$ . Step 2: Divide into 3 equal groups:  $15 \div 3 = 5$  marbles in each group. (Choice D is the answer to step 1 only.)
- 18) **Choice B is correct.** **(3.MD.C.7b)** Area = length  $\times$  width =  $7 \times 3 = 21$  square yards.
- 19) **Choice D is correct.** **(3.NF.A.3c)** Circle A is completely shaded =  $\frac{1}{1} = 1$  whole. Circle B is only half shaded.
- 20) **Choice D is correct.** **(3.OA.A.1)**  $9 \times 2$  means 9 groups of 2, so  $2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 18$ .
- 21) **The correct answer is trapezoid.** **(3.G.A.1)** There are many quadrilaterals beyond rectangles, squares, and rhombuses. A trapezoid (with one pair of parallel sides) is one example. Students may also draw an irregular quadrilateral with no parallel sides.
- 22) **Choice D is correct.** **(3.OA.A.2)**  $15 \div 5 = 3$ . Sharing means dividing the total into equal groups.
- 23) **Choice C is correct.** **(3.NF.A.2)**  $\frac{3}{4}$  means 3 out of 4 equal parts. The distance from 0 to the mark contains exactly 3 parts.
- 24) **Choice B is correct.** **(3.MD.C.7c)** Use the distributive property: multiply 6 by each part, then add.
- 25) **Choice C is correct.** **(3.OA.D.9)** Each number increases by 3. Add 3 to 12 to get 15.
- 26) **Choice A is correct.** **(3.MD.A.1)** The minute hand on 2 means 10 minutes. The hour hand on 7 means 7 o'clock. So the time is 7 : 10.
- 27) **Choice D is correct.** **(3.MD.C.5b)**  $7 \times 7 = 49$  unit square tiles.
- 28) **Choice D is correct.** **(3.OA.A.4)** Divide:  $63 \div 7 = 9$  weeks. Check:  $9 \times 7 = 63$ .
- 29) **Choice B is correct.** **(3.G.A.2)**  $\frac{2}{3}$  of a square divided into 3 parts means coloring 2 parts.
- 30) **Choice C is correct.** **(3.MD.C.7d)** Longer:  $9 \times 4 = 36$  sq units. Shorter:  $3 \times 2 = 6$  sq units. Total:  $36 + 6 = 42$  sq units.



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## Hi, Strong Climber!

◇ You climbed all 5 tests. One step at a time. That takes patience and grit. The view from the top is amazing because you earned it! ◇

★ **Mountain guides say:** steady steps win the climb. You climbed steady. You stayed strong. ★

### Climber's Skills

- **Strong Steps:** You move forward, problem by problem.
- **Steady Pace:** You don't rush. You don't stop.
- **Map Skills:** You read questions carefully.
- **Top of the Mountain:** You can finish a long test.

**Guide's tip:** on test day, take small breaths between problems. One foot, then the next. You'll reach the top!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

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- ✓ And More!



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$$\begin{array}{r} 7 \times 8 \\ \hline = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ -178 \\ \hline = 274 \end{array}$$



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