

4

Arizona AASA

Grade 3

MATH

PRACTICE TESTS

Standards-Aligned Practice



STANDARDS-ALIGNED

Practice to build skills and boost confidence



4 FULL-LENGTH TESTS

Realistic questions to prepare for test day

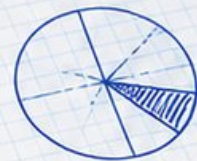


ANSWER KEYS & EXPLANATIONS

Detailed solutions to learn and improve



$$\begin{array}{r} 425 \\ + 378 \\ \hline 803 \end{array}$$



$$6 \times 7 = 42$$

PRACTICE.
PREPARE.
SUCCEED.

4 Arizona AASA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



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

Jay Daie and Reza Nazari



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome to the Arizona Math Launch

Four missions, careful work, and a stronger Grade 3 thinker



Read the mission. Show the work. Check the answer. Launch again.

To the Grade 3 Mission Leader

This book is a four-mission practice launch for the Arizona AASA. Each test gives you a fresh chance to multiply, divide, read graphs, compare fractions, measure, find area, and explain math in a way someone else can follow.

Arizona has desert trails, canyon views, and sunny classrooms where sharp thinking can shine. Good math uses the same habit: pause, check the details, and move forward with a steady plan.

Notice

Find the numbers, units, and question before choosing a path.

Model

Draw an array, number line, table, or quick equation.

Verify

Ask whether your answer fits the story and the unit.

Launch promise: I will slow down at the important moments, show the work I can, and use every miss as a clue for the next mission.

How to Use This Book

A four-mission routine for steady Grade 3 growth

1. Warm Up the System

Read the review pages first. Remind your brain how equal groups, fractions, clocks, graphs, and area models work.

2. Fly One Mission

Take one complete 30-question test. Keep your work neat enough that you can check it later.

3. Review the Flight

Use the answer key, then pause. A wrong answer is useful when you can name what happened.

4. Repair and Relaunch

Rework a few missed questions before starting the next test. The repair step is where the score begins to move.

A Four-Session Plan

Session 1	Take Test 1 and mark the topics that need attention.
Session 2	Take Test 2 and focus on showing every step clearly.
Session 3	Take Test 3 and watch for units, labels, and two-step problems.
Session 4	Take Test 4 and finish with calm, careful checking.

Best mission habit: After checking answers, write one sentence: “Next time I will pay attention to _____.”



Test Overview

What each Grade 3 math mission asks you to do

Each practice test has 30 questions. Across four tests, you will practice the kind of Grade 3 math thinking used on the Arizona AASA: reading carefully, choosing a strategy, doing accurate computation, and explaining enough work to make your answer clear.

Multiple Choice

Look for the best answer. Estimate first when you can, cross out choices that do not fit, and reread the question before you choose.

Open Response

Write the answer and show the reason. A good Grade 3 response may use a drawing, equation, table, number line, or a few clear words.

Math Ideas Inside the Four Tests

- multiplication, division, arrays, missing factors, and two-step word problems
- place value, rounding, addition, subtraction, and multiplying by tens
- unit fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shape categories

What strong AASA work looks like: the answer matches the question, the units make sense, and the work is clear enough to check.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	28
★ Practice Test 3	_____	40
★ Practice Test 4	_____	52
Practice Test Answer Keys	_____	63
Practice Test Answers and Explanations	_____	66

1) A rectangular field is 6 meters long and 8 meters wide. How many square meters is the field?

A. 14 sq m

C. 42 sq m

B. 28 sq m

D. 48 sq m

2) A rectangular kitchen table is 8 feet long and 6 feet wide. What is the area that the table covers?



3)

5 inches

How many unit squares fit in this rectangle?

A. 7 units

C. 15 units

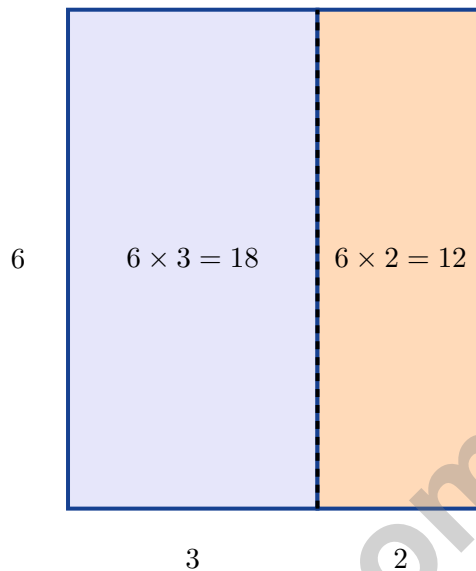
B. 9 units

D. 10 units



Scan me!
For more practice
& answers

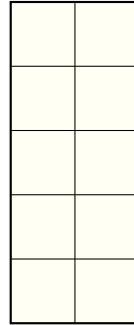
4) Look at this area model for $6 \times (3 + 2)$.



This shows that $6 \times (3 + 2)$ equals:

- A. $18 + 2 = 20$ C. $6 + 3 + 2 = 11$
 B. 6×4 D. $18 + 12 = 30$
- 5) Which problem equals 350? Check each one.
- A. $5 \times 70 = (5 \times 7) \times 10 = 35 \times 10 = 350$ C. $5 \times 50 = (5 \times 5) \times 10 = 25 \times 10 = 250$
 ✓ D. $7 \times 70 = (7 \times 7) \times 10 = 49 \times 10 = 490$
 B. $7 \times 40 = (7 \times 4) \times 10 = 28 \times 10 = 280$





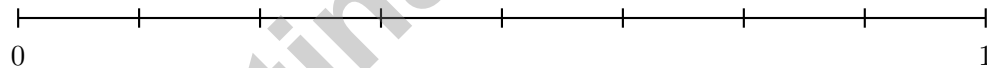
6)

Count the unit squares in this tall rectangle. What is its area?

- A. 7 square units C. 10 square units
 B. 9 square units D. 12 square units

7) What is 367 rounded to the nearest 100?

- A. 300 C. 400
 B. 370 D. 360

8) On a number line from 0 to 1 with 8 equal parts, which tick mark is at $\frac{7}{8}$?

- A. The fifth tick C. The seventh tick
 B. The sixth tick D. The eighth tick

9) Look at the fact family:

$3 \times 8 = 24$	$8 \times 3 = 24$
$24 \div 3 = 8$	$24 \div 8 = 3$

Which equation is part of this fact family?

- A. $24 \div 8 = 4$ C. $20 \div 3 = 8$
 B. $24 \div 4 = 8$ D. $24 \div 3 = 8$



Scan me!
For more practice
& answers

1) A garden is 7 feet long and 5 feet wide. What is its area?

- A. 12 sq ft C. 24 sq ft
 B. 35 sq ft D. 70 sq ft

2) A bar graph shows paint cans. Red is 2 units, blue is 4 units, yellow is 3 units. Scale is 10 cans per unit. Which color has the most cans?

- A. Red C. Yellow
 B. Blue D. Red and Blue together

3) This area model shows 4×60 . What is the missing part?

6×10	6×10	6×10	6×10
---------------	---------------	---------------	---------------

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

- A. 24 C. 240
 B. 60 D. 2400
- 4) A rope is divided into 8 equal sections. What unit fraction describes one section?
- A. $\frac{1}{8}$ C. $\frac{2}{8}$
 B. $\frac{8}{1}$ D. $\frac{1}{9}$
- 5) $\frac{1}{2} = \frac{?}{6}$. What number goes in the box?

- A. 1 C. 3
 B. 2 D. 4



6) What is 8×7 ?

A. 48

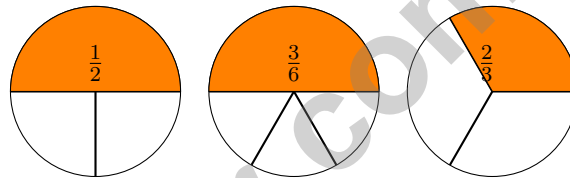
C. 56

B. 54

D. 63

7) What fraction is the third tick on a number line split into 4 equal parts?

8) Look at the pie charts. Which fraction does NOT match the group?



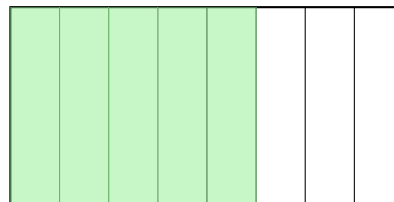
A. $\frac{1}{2}$

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

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

D. All match

9) A rectangle is divided into equal parts. Five parts are shaded out of 8 equal parts. What fraction is shaded?



A. $\frac{3}{8}$

C. $\frac{5}{3}$

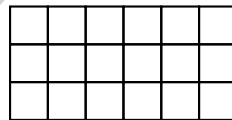
B. $\frac{5}{8}$

D. $\frac{1}{8}$



Scan me!
For more practice
& answers

- 1) A rectangular badge is 4 inches by 6 inches. What is the total area of the badge?
- A. 20 sq in C. 24 sq in
 B. 48 sq in D. 10 sq in
- 2) A rectangular field is 9 meters long and 5 meters wide. How many square meters is the field?
- A. 14 square meters C. 40 square meters
 B. 45 square meters D. 28 square meters
- 3) Which number sentence represents “28 beads made into 7 equal necklaces”?
- A. $28 + 7$ C. $28 - 7$
 B. 7×28 D. $28 \div 7$
- 4) A number line is divided into equal parts. The first tick after 0 is at $\frac{1}{6}$. Where is the third tick?
- A. $\frac{2}{6}$ C. $\frac{4}{6}$
 B. $\frac{3}{6}$ D. $\frac{5}{6}$
- 5) Noah is counting unit squares on a tiled wall pattern. The wall displays this arrangement:

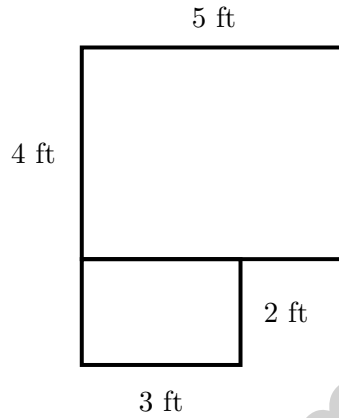


What is the total area covered?

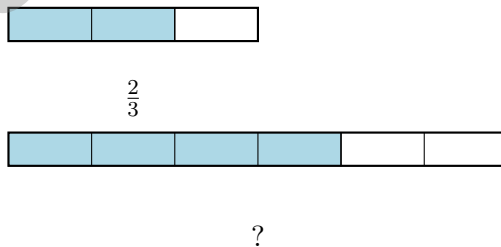
- A. 9 sq units C. 18 sq units
 B. 15 sq units D. 24 sq units



- 6) An L-shaped patio is shown with dashed lines dividing it into two rectangles. The first rectangle is 5 ft by 4 ft. The second is 3 ft by 2 ft. What is the total area of the patio?



- A. 26 sq ft C. 14 sq ft
 B. 20 sq ft D. 40 sq ft
- 7) Mia sees a number line from 0 to 3 divided into thirds. She marks $\frac{5}{3}$. Is this past the 1 on the number line?
- A. No, before 1 C. Right at 1
 B. Way past 3 D. Yes, past 1
- 8) Look at the bars. What fraction does the second bar show?



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



Scan me!
For more practice
& answers

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.

Testinar.com



Scan me!
For more practice
& answers

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(3.MD.C.6)** Area = $6 \times 8 = 48$ square meters.
- 2) **The correct answer is 48 square feet.** **(3.MD.C.7b)** Area = length \times width, so $8 \times 6 = 48$ square feet.
- 3) **Choice D is correct.** **(3.MD.C.7)** The grid shows 5 columns and 2 rows. Area = $5 \times 2 = 10$ square units. You can also count: $5 + 5 = 10$ (two rows of five).
- 4) **Choice D is correct.** **(3.OA.B.5)** The area model shows two rectangles: $6 \times 3 = 18$ and $6 \times 2 = 12$. Adding them: $18 + 12 = 30 = 6 \times 5$.
- 5) **Choice A is correct.** **(3.NBT.A.3)** $5 \times 70 = (5 \times 7) \times 10 = 35 \times 10 = 350$. By decomposing $70 = 7 \times 10$ and using the associative property, we see that only choice A equals 350.
- 6) **Choice C is correct.** **(3.MD.C.5a)** The rectangle is 2 units wide and 5 units tall: $2 \times 5 = 10$ unit squares.
- 7) **Choice C is correct.** **(3.NBT.A.1)** For 367, look at the tens digit (6). Since $6 \geq 5$, round the hundreds digit up: 367 rounds to 400.
- 8) **Choice C is correct.** **(3.NF.A.2)** $\frac{7}{8}$ means 7 out of 8 equal parts, which is the seventh tick mark from 0.
- 9) **Choice D is correct.** **(3.OA.A.4)** In this fact family, $24 \div 3 = 8$. This is the division equation that matches the multiplication $3 \times 8 = 24$.
- 10) **Choice B is correct.** **(3.NF.A.1)** The circle has 8 equal parts, so one shaded part is $\frac{1}{8}$, not $\frac{1}{4}$. Ana made an error by not counting the total number of equal parts.
- 11) **Choice B is correct.** **(3.MD.C.5b)** $7 \times 2 = 14$ square units.
- 12) **Choice B is correct.** **(3.MD.C.7d)** Bottom: $7 \times 3 = 21$ sq ft. Top: $3 \times 2 = 6$ sq ft. Total: $21 + 6 = 27$ sq ft.
- 13) **The correct answer is $\frac{3}{6}$.** **(3.NF.A.3d)** With the same numerator, a smaller denominator makes a larger fraction.
- 14) **Choice C is correct.** **(3.NF.A.3c)** Three complete circles = 3 wholes = $\frac{3}{1}$.
- 15) **Choice B is correct.** **(3.MD.B.3)** Blue: $5 \times 2 = 10$ ribbons. Red: $3 \times 2 = 6$ ribbons. More: $10 - 6 = 4$.
- 16) **Choices A and B are correct.** **(3.OA.A.2)** $20 \div 5$ has two equivalent meanings: “20 items shared among 5 groups” (partitive, answer is 4 per group) and “How many groups of 5 fit in 20” (quotitive, answer is 4 groups). Choice E describes the same idea as A. Choices C and D are incorrect operations.
- 17) **Choice B is correct.** **(3.MD.C.5)** The shaded rectangle is 4 units wide and 3 units tall. $4 \times 3 = 12$ square units.
- 18) **Choice D is correct.** **(3.OA.A.3)** Multiply: 3 groups \times 5 stars per group = 15 stars.
- 19) **Choice C is correct.** **(3.MD.A.1)** From 4 : 05 to 5 : 05 is 1 hour. From 5 : 05 to 5 : 28 is 23 minutes. Total: 1 hour 23 minutes.
- 20) **Choice D is correct.** **(3.OA.B.6)** A complete fact family has two multiplication facts and two division facts. All four link the same three numbers.
- 21) **Choice D is correct.** **(3.OA.A.1)** 6 anthills with 9 ants each means 6 groups of 9. So $6 \times 9 = 54$ ants.
- 22) **Choice B is correct.** **(3.G.A.2)** If each part is $\frac{1}{3}$, the circle is divided into 3 equal parts.
- 23) **Choice C is correct.** **(3.OA.D.8)** Step 1: Students per bus originally: $72 \div 8 = 9$ students. Step 2: The 6 new students join one bus, so that bus has $9 + 6 = 15$ students.
- 24) **Choice B is correct.** **(3.MD.C.7a)** 5 rows \times 2 columns = $5 \times 2 = 10$ square units. A is sum error.
- 25) **Choice D is correct.** **(3.G.A.1)** A parallelogram has two pairs of opposite sides that are both parallel and equal in length. Rectangles and rhombuses are special parallelograms.
- 26) **Choice A is correct.** **(3.MD.C.7c)** Splitting 6 into $4 + 2$ and using the distributive property gives the same total area of 42.
- 27) **Choice A is correct.** **(3.NF.A.3b)** Both bars show the same shaded length. $\frac{2}{3} = \frac{4}{6}$ because $\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$.
- 28) **The correct answer is 48.** **(3.OA.D.9)** The row for 6 increases by 6 each time because we multiply 6 by 1, 2, 3, 4, etc. So $6 + 6 = 12$, then $12 + 6 = 18$. The eighth product is 48, so $6 \times 8 = 48$.
- 29) **Choice D is correct.** **(3.NF.A.2b)** Each whole number spans 3 ticks. From 0, the tick at position $1\frac{1}{3}$ is the 4th tick, which is $\frac{4}{3}$.



From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 4 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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

Jay Daie

Your Math Friend

Testinar.com

Build Skills. Achieve More.

This book gives **Grade 3** students the focused practice they need to master math concepts with confidence.

What's Inside?



Standards-Aligned Practice

Questions designed to match Grade 3 math standards.



Variety of Question Types

Build skills with multiple formats and challenges.



Real-World Applications

Engaging problems that connect math to life.



Step-by-Step Progress

Track improvement and see growth over time.



Build Skills & Boost Confidence

Strengthen understanding and perform better.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
- ✓ And More!



More Grade 3 Math Resources
& Practice Materials

testinar.com/math3



PRACTICE. PREPARE. SUCCEED.