

# 7

# Idaho

# ISAT

## Grade 3 MATH

## PRACTICE TESTS

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



7 Full-Length  
Practice Tests



Standards-Aligned  
Math Practice



Detailed Answer Keys  
and Explanations



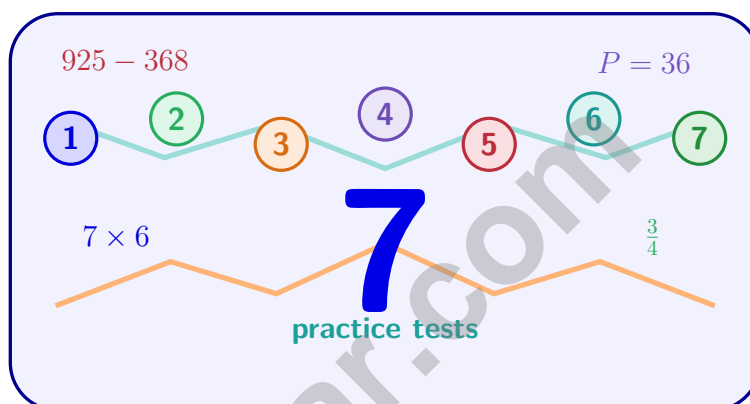
Build Confidence.  
Achieve Success.

PREPARE  
PRACTICE  
SUCCEED



# 7 Idaho ISAT Grade 3 Math Practice Tests

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



Seven complete 30-question practice trails for Grade 3 math:  
operations, 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 Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

## To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Idaho ISAT. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

Idaho has mountain lakes, potato fields, canyon roads, forest trails, and clear night skies, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and use a steady plan through every turn.

### Scout

Find what the problem is asking before you calculate.

### Solve

Pick an equation, model, array, graph, or number line.

### Prove

Check the answer and explain the thinking clearly.

**Seven-trail promise:** I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

# How to Use This Book

## A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For Idaho students, each trail moves through mountain lakes, potato fields, canyon roads, forest trails, and clear night skies: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

**Best review habit:** A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



## What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Idaho 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. This gives students practice with quick decisions, careful reading, and short written math answers for the Idaho ISAT path.



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# Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	25
★ Practice Test 3	_____	39
★ Practice Test 4	_____	50
★ Practice Test 5	_____	62
★ Practice Test 6	_____	74
★ Practice Test 7	_____	85
<b>Practice Test Answer Keys</b>	_____	<b>96</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>101</b>

1) Eli divides a cake into 6 equal pieces. What fraction is one piece?

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

- C.  $\frac{5}{6}$   
 D.  $\frac{1}{5}$

2) A rectangular poster has dimensions of 11 inches by 8 inches. What is the area of the poster?

- A. 88 square inches  
 B. 38 square inches

- C. 19 square inches  
 D. 99 square inches

3) A number line from 0 to 1 is divided into 5 equal parts. What is the length of each part?

- A.  $\frac{1}{5}$   
 B.  $\frac{5}{1}$

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

4) Look at the pattern 2, 4, 6, 8, 10. What is the next number? Explain why.

5) Which shows the same product as  $5 \times 8$ ?

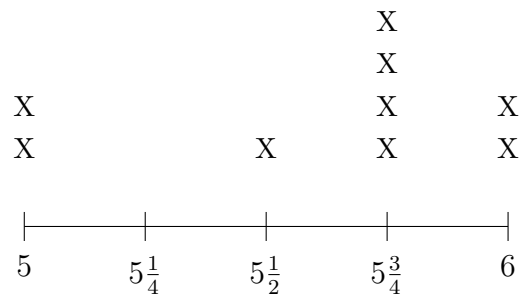
- A.  $5 \times 7$   
 B.  $4 \times 8$

- C.  $6 \times 5$   
 D.  $8 \times 5$





10) A line plot shows book lengths in inches with quarters:  $5$ ,  $5\frac{1}{4}$ ,  $5\frac{1}{2}$ ,  $5\frac{3}{4}$ ,  $6$ .

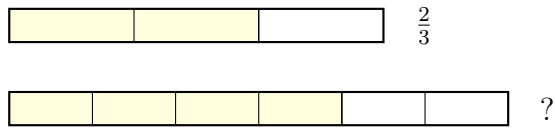


What is the least common book length?

- A. 5 inches                       C.  $5\frac{3}{4}$  inches  
 B.  $5\frac{1}{2}$  inches                       D. 6 inches
- 11) Sam reads for 26 minutes starting at 6 : 19 PM. What time does Sam finish reading?
- A. 6 : 35 PM                       C. 6 : 45 PM  
 B. 6 : 40 PM                       D. 6 : 50 PM
- 12) Which expression shows the same product as  $2 \times 9$ ?
- A. 11 objects in a row                       C.  $9 \times 9$   
 B.  $2 + 9$                        D.  $9 \times 2$
- 13) Sara buys 3 packs of pencils with 7 pencils each and 4 packs of pens with 2 pens each. How many writing items does she buy in total?
- A. 21                       C. 25  
 B. 23                       D. 29



- 1) Look at the bars. Which fraction is equivalent to  $\frac{2}{3}$ ?



- A.  $\frac{2}{6}$                        C.  $\frac{4}{6}$   
 B.  $\frac{3}{6}$                        D.  $\frac{3}{4}$
- 2) Sam fills a bottle with water 3 times. Each time he uses 400 mL. How much water total?
- A. 400 mL                       C. 1000 mL  
 B. 800 mL                       D. 1200 mL
- 3) Write a fraction equivalent to  $\frac{3}{6}$ .

- 4) What number makes the equation true?

$$\square \times 6 = 48$$

- A. 10                       C. 7  
 B. 9                       D. 8



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5) Ben draws a rectangle on a grid. It has 4 rows of unit squares and 5 columns. What is the area?

- A. 18 sq units                       C. 9 sq units  
 B. 24 sq units                       D. 20 sq units

6) A picture graph shows apples collected. Red apples: 6 icons (scale: 2 apples per icon). Green apples: 4 icons (scale: 2 apples per icon). How many more red apples than green apples?

- A. 2                                       C. 6  
 B. 4                                       D. 12

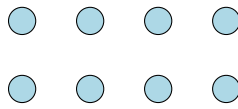
7) Eli's drawing pad is 10 centimeters long and 6 centimeters wide. What is its area?

- A. 16 sq cm                       C. 50 sq cm  
 B. 32 sq cm                       D. 60 sq cm

8) What is  $72 \div 8$ ?

- A. 8                                       C. 10  
 B. 9                                       D. 64

9)



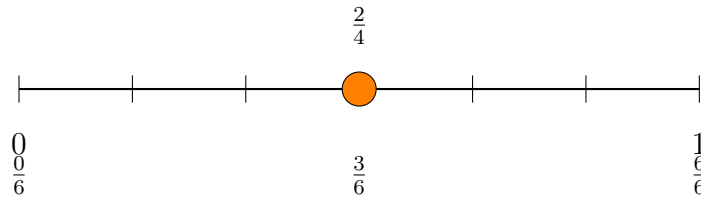
What multiplication equation matches this picture?

- A.  $8 \times 2 = 16$                        C.  $2 \times 2 = 4$   
 B.  $4 + 4 = 8$                        D.  $4 \times 2 = 8$





5) Look at the number line. Which fraction equals  $\frac{2}{4}$ ?



- A.  $\frac{1}{4}$   
 B.  $\frac{3}{6}$

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

6) Round 893 to the nearest 100.

- A. 800  
 B. 890

- C. 893  
 D. 900

7) What is  $48 \div 6$ ?

- A. 7  
 B. 10

- C. 9  
 D. 8

8) A park is shaped like a rectangle. It is 10 feet long and 8 feet wide. How many square feet is the park?

- A. 18 square feet  
 B. 36 square feet

- C. 80 square feet  
 D. 60 square feet

9) Which fraction is NOT equivalent to  $\frac{3}{6}$ ?

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

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



## 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 A is correct.** **(3.NF.A.1)** A cake divided into 6 equal pieces has each piece as  $\frac{1}{6}$  (one-sixth).
- 2) **Choice A is correct.** **(3.MD.C.5)** Multiply length by width:  $11 \times 8 = 88$  square inches.
- 3) **Choice A is correct.** **(3.NF.A.1)** When the interval from 0 to 1 is split into 5 equal parts, each part has length  $\frac{1}{5}$ .
- 4) **The correct answer is 12.** **(3.OA.D.9)** The difference between consecutive numbers is always 2:  $2 + 2 = 4$ ,  $4 + 2 = 6$ , and so on. So  $10 + 2 = 12$ .
- 5) **Choice D is correct.** **(3.OA.B.5)** The commutative property lets you switch factors. So  $5 \times 8 = 8 \times 5 = 40$ .
- 6) **Choice C is correct.** **(3.MD.B.3)** Rio:  $8 \times 3 = 24$ . Alex:  $5 \times 3 = 15$ . Fewer:  $24 - 15 = 9$ .
- 7) **Choice B is correct.** **(3.MD.C.5)** Left rectangle:  $3 \times 2 = 6$  sq units. Right rectangle:  $3 \times 1 = 3$  sq units. Total:  $6 + 3 = 9$  sq units.
- 8) **Choice A is correct.** **(3.NBT.A.2)** Ones:  $6 + 4 = 10$  (write 0, carry 1). Tens:  $1 + 8 + 1 = 10$  (write 0, carry 1). Hundreds:  $2 + 3 + 1 = 6$ . Answer: 600.
- 9) **Choice D is correct.** **(3.OA.A.4)** Divide:  $63 \div 7 = 9$  weeks. Check:  $9 \times 7 = 63$ .
- 10) **Choice B is correct.** **(3.MD.B.4)** At  $5\frac{1}{2}$ , there is only 1 X. At 5 and 6 there are 2 each, and at  $5\frac{3}{4}$  there are 4.
- 11) **Choice C is correct.** **(3.MD.A.1)**  $6 : 19 + 26 \text{ min} = 6 : 45 \text{ PM}$ .
- 12) **Choice D is correct.** **(3.OA.A.1)**  $2 \times 9$  and  $9 \times 2$  both equal 18 by the commutative property of multiplication.
- 13) **Choice D is correct.** **(3.OA.D.8)** Step 1: Pencils:  $3 \times 7 = 21$  items. Step 2: Pens:  $4 \times 2 = 8$  items. Total:  $21 + 8 = 29$  items.
- 14) **Choice C is correct.** **(3.OA.A.3)**  $24 \div 3 = 8$ . Each of the 3 boxes gets 8 pencils.
- 15) **Choice B is correct.** **(3.G.A.1)** The rectangle has two sides that are 3 cm (the length) and two sides that are 2 cm (the width). This makes 2 pairs of equal sides.
- 16) **Choices A and B are correct.** **(3.MD.A.2)** Choices A and B are both true. Choice C is false: 2500 g is greater than 2000 g. Choice D requires unit conversion (not Grade 3). Choice E is false: 750 mL is less than 1000 mL.
- 17) **Choice D is correct.** **(3.OA.A.3)** Divide:  $54 \div 9 = 6$  flowers per bouquet.
- 18) **Choice C is correct.** **(3.NF.A.3)** Same numerator (3), different denominators: fourths are bigger pieces than sixths (the bar is cut into fewer, larger pieces). Three fourths covers more area than three sixths.
- 19) **The correct answer is 2.** **(3.NF.A.2)** From 0 to  $\frac{2}{3}$  is a count of 2 equal sections.
- 20) **Choice C is correct.** **(3.MD.C.6)** Count rows and columns: 4 units wide and 2 units tall equals  $4 \times 2 = 8$  unit squares covering the rectangle with no gaps or overlaps.
- 21) **Choice D is correct.** **(3.OA.A.2)**  $14 \div 2$  means how many groups of 2 fit in 14? The answer is 7 groups. This is measurement division (also called quotitive division).
- 22) **Choice A is correct.** **(3.NBT.A.1)** The ones digit is 2. Since  $2 < 5$ , round down: 662 rounds to 660.
- 23) **Choice D is correct.** **(3.OA.B.6)** The unknown factor in  $\square \times 3 = 18$  is 6. This is exactly the same as  $18 \div 3 = 6$ . Multiplication and division are inverse operations.
- 24) **The correct answer is 4 units.** **(3.MD.C.7)** Area = length  $\times$  width. Since  $24 = 6 \times w$ , the missing width is 4 units.
- 25) **Choice C is correct.** **(3.NF.A.3)** Pie 1 shows  $\frac{1}{4}$  and Pie 2 shows  $\frac{2}{8}$ . Both show one-quarter shaded. They are equivalent:  $\frac{1 \times 2}{4 \times 2} = \frac{2}{8}$ .
- 26) **Choice D is correct.** **(3.NBT.A.3)**  $4 \times 20 = 4 \times (2 \times 10) = (4 \times 2) \times 10 = 8 \times 10 = 80$ . This uses associative property: you break 20 into  $2 \times 10$ , multiply the single digits first, then multiply by 10.
- 27) **Choice B is correct.** **(3.G.A.2)**  $18 \text{ sixths} = 18 \div 6 = 3$  wholes. Six sixths make one whole.
- 28) **Choice C is correct.** **(3.NF.A.2)** Point H at the whole number 3 is nine thirds from 0:  $\frac{9}{3} = 3$ .
- 29) **Choice A is correct.** **(3.MD.C.7)** The equation  $3 \times (5 + 4) = (3 \times 5) + (3 \times 4)$  needs rectangles with the same width of 3.
- 30) **Choice C is correct.** **(3.MD.C.5)**  $6 \times 6 = 36$  unit square tiles.



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& answers

## Hi, Curious Scientist!

◇ 7 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](mailto:jay@testinar.com).

**Jay Daie**

Your Math Scientist

# PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



## EACH PRACTICE TEST INCLUDES:



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