

7

Iowa ISASP

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



$4 \times 6 = 24$

$2 + 3 = 5$



7 Iowa ISASP 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 Iowa ISASP. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

Iowa has rolling farms, fairgrounds, bike trails, quiet river bends, and careful classroom work, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and check the pattern before choosing an operation.

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 Iowa students, each trail moves through rolling farms, fairgrounds, bike trails, quiet river bends, and careful classroom work: 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 Iowa 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 Iowa ISASP path.



Scan me!
For more practice
& answers

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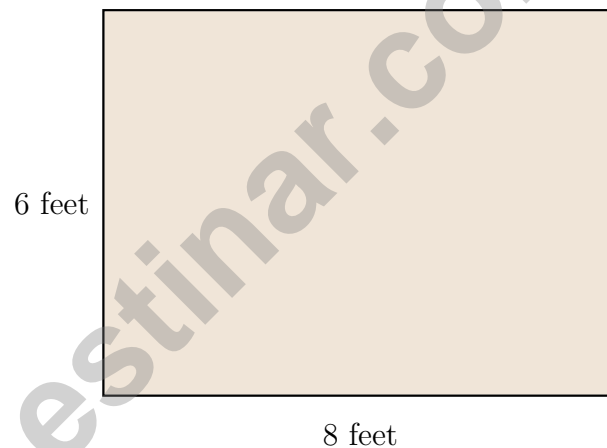
1) A bag of flour has a mass of 2000 grams. A block of butter has a mass of 250 grams. How many more grams does the flour weigh than the butter?

- A. 250 grams C. 2000 grams
 B. 1750 grams D. 2250 grams

2) Ava's dentist appointment is at 3 : 45 PM. She arrives 12 minutes early. What time does Ava arrive?

- A. 3 : 30 PM C. 3 : 57 PM
 B. 3 : 33 PM D. 4 : 00 PM

3) Lily is building a sandbox for her backyard. The sandbox is 8 feet long and 6 feet wide. What is the area of the sandbox?



- A. 48 sq ft C. 14 sq ft
 B. 28 sq ft D. 56 sq ft



4) A bakery made some cupcakes. It sold 312 cupcakes and has 188 left. How many cupcakes did the bakery make?

A. 500

C. 490

B. 510

D. 520

5) Use the place-value chart. What is 6×10 ?

Tens	Ones
6	0

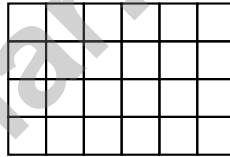
A. 16

C. 610

B. 60

D. 601

6) Count the unit squares in this rectangle. Write how many unit squares cover the shape.



7) A piece of paper is shaped like a rectangle 9 inches long and 1 inch wide. Another piece is a square 3 inches on each side. Which paper covers more area?

A. The long, thin rectangle

C. They cover the same area

B. The square

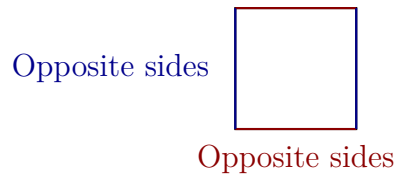
D. Need to measure with a ruler



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8) Which description does NOT clearly show equal groups for multiplication?

- A. Four groups of three objects each C. Six columns of two dots each
 B. Two rows of nine stars each D. Counting by ones from 0 to 10

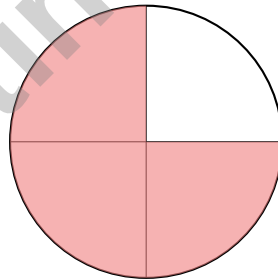


9)

In this square, the dark-red sides are opposite each other, and the dark-blue sides are opposite each other. Are the opposite sides parallel?

- A. No, opposite sides never are C. Only the red sides are parallel
 B. Yes, both pairs of opposite sides are parallel D. Only the blue sides are parallel

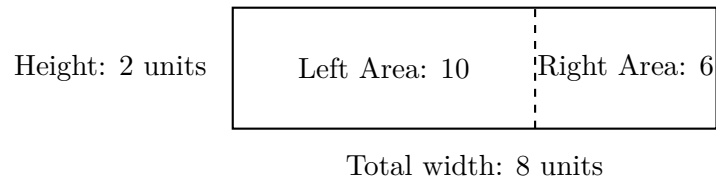
10) A circle is divided into 4 equal parts. If 3 parts are shaded, what fraction of the circle is NOT shaded?



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



1) A rectangle with a vertical split looks like this:



What is the left rectangle's width?

- A. 5 units C. 8 units
 B. 2 units D. 6 units

2) A student starts eating lunch at 11 : 38 AM. Recess starts at 12 : 04 PM. How many minutes until recess?

3) Sam works 5 hours each day at the library. After 7 days, how many hours has he worked?

- A. 45 C. 30
 B. 40 D. 35

4) Sam has $\frac{1}{6}$ of a pizza. Ava has $\frac{1}{3}$ of the same pizza. Who has a larger piece?

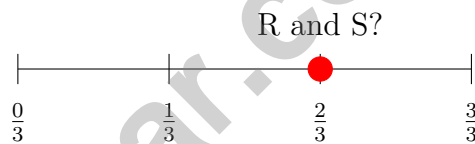
- A. Sam C. They have the same
 B. Ava D. Cannot compare



- 5) A bar graph shows inches of rainfall. Each unit on the scale represents 10 inches. If a bar is 3 units tall, how many inches of rainfall does it represent?



- 6) How many unit squares fit along the length of a 7 cm side?
- A. 5 unit squares
- B. 6 unit squares
- C. 7 unit squares
- D. 8 unit squares
- 7) Two identical number lines go from 0 to 1. Point R is at $\frac{4}{6}$. Point S is at $\frac{2}{3}$. Are they at the same location?

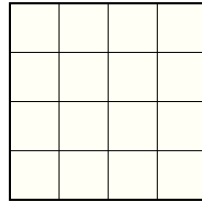


- A. No, R is left of S.
- B. No, S is left of R.
- C. Yes, at the same spot.
- D. The lines are different.



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- 1) Mia needs to tile a floor that is 4 feet by 4 feet using 1-foot by 1-foot tiles (unit squares in feet). How many tiles does she need?



4 feet

- A. 8 tiles C. 16 tiles
 B. 12 tiles D. 20 tiles
- 2) A candy bar is divided into 4 equal pieces. What is the fraction name for one piece?
- A. $\frac{1}{4}$ C. $\frac{1}{3}$
 B. $\frac{4}{4}$ D. $\frac{4}{1}$
- 3) Eli bought 48 buttons for his sewing project. He needs 6 buttons per shirt. How many shirts can he complete?
- A. 6 shirts C. 9 shirts
 B. 7 shirts D. 8 shirts
- 4) A rectangle has length 4 units and width 3 units. There are 4 rows with 3 unit squares in each row. Find the area by adding: $3 + 3 + 3 + 3 = ?$
- A. 7 sq units C. 12 sq units
 B. 9 sq units D. 10 sq units



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 B is correct.** **(3.MD.A.2)** Subtract: $2000 - 250 = 1750$ g.
- 2) **Choice B is correct.** **(3.MD.A.1)** $3 : 45 - 12 \text{ min} = 3 : 33 \text{ PM}$.
- 3) **Choice A is correct.** **(3.MD.D.8)** Area = length \times width = $8 \times 6 = 48$ square feet.
- 4) **Choice A is correct.** **(3.NBT.A.2)** Add to find the total: $312 + 188 = 500$. Ones: $2 + 8 = 10$ (write 0, carry 1). Tens: $1 + 8 + 1 = 10$ (write 0, carry 1). Hundreds: $3 + 1 + 1 = 5$.
- 5) **Choice B is correct.** **(3.NBT.A.3)** The chart shows 6 tens and 0 ones, which is $6 \times 10 = 60$.
- 6) **The correct answer is 24 unit squares.** **(3.MD.C.5)** Count the rows: 4 rows. Count across: 6 unit squares per row. Total: $6 + 6 + 6 + 6 = 24$ unit squares cover the rectangle.
- 7) **Choice C is correct.** **(3.MD.C.5)** Rectangle: $9 \times 1 = 9$ square inches. Square: $3 \times 3 = 9$ square inches. Shape doesn't matter; area is what counts.
- 8) **Choice D is correct.** **(3.OA.A.2)** Counting by ones from 0 to 10 does not show equal groups or repeated addition. Multiplication requires equal groups or arrays, like choices A, C, and D.
- 9) **Choice B is correct.** **(3.G.A.1)** In a square (and all rectangles and rhombuses), both pairs of opposite sides are parallel.
- 10) **Choice A is correct.** **(3.G.A.2)** If 3 out of 4 parts are shaded, then 1 part is not shaded, which is $\frac{1}{4}$.
- 11) **The correct answer is 1.** **(3.NF.A.2)** $\frac{2}{4} = \frac{1}{2}$, so she ate 1 half.
- 12) **Choice A is correct.** **(3.OA.A.4)** If $\square \div 4 = 9$, then the unknown is 36 because $4 \times 9 = 36$.
- 13) **Choices A and C are correct.** **(3.OA.A.2)** A and C are both correct: they show the total area of 36 using the distributive property. B is false because $3 \times 8 = 24$, not 25. D is false because the rectangles share the dimension 3. E is false because $3 \times 13 = 39$.
- 14) **Choice B is correct.** **(3.MD.C.7)** Adding the width 2 six times: $2 + 2 + 2 + 2 + 2 + 2 = 12$. This is the same as $6 \times 2 = 12$ square units.
- 15) **Choice C is correct.** **(3.NBT.A.1)** For 127: to the nearest 10, look at the ones digit ($7 \geq 5$), so it rounds to 130. To the nearest 100, look at the tens digit ($2 < 5$), so it rounds to 100. Both answers are correct for their respective place values.
- 16) **Choice C is correct.** **(3.NF.A.2)** $\frac{1}{3}$ and $\frac{2}{6}$ mark the same point on the number line from 0 to 1. They represent the same fraction.
- 17) **Choice D is correct.** **(3.OA.B.6)** The missing factor is 9 because $9 \times 7 = 63$. This is the same as saying $63 \div 7 = 9$.
- 18) **Choice D is correct.** **(3.OA.A.2)** "How many groups of 4" is a measurement division problem. Divide 16 by 4 to find the number of groups.
- 19) **Choice B is correct.** **(3.NF.A.3)** The denominator was multiplied by 2 (from 3 to 6). Multiply the numerator by 2: $2 \times 2 = 4$. So $\frac{2}{3} = \frac{4}{6}$.
- 20) **Choice D is correct.** **(3.OA.A.3)** Area of a square = side \times side = $5 \times 5 = 25 \text{ cm}^2$.
- 21) **Choice D is correct.** **(3.OA.D.9)** Even numbers increase by 2: 2, 4, 6, 8, etc.
- 22) **The correct answer is 28 sq ft.** **(3.MD.C.6)** Students should use either row-counting or column-counting and show repeated addition or skip-counting.
- 23) **Choice B is correct.** **(3.OA.D.8)** Step 1: Add total students: $15 + 15 = 30$ students. Step 2: Make groups: $30 \div 5 = 6$ groups. (Choice D is step 1 only; choice A is incomplete.)
- 24) **Choice C is correct.** **(3.MD.B.4)** 56 inches or taller includes 56 and $56\frac{1}{2}$: that is $3 + 2 = 5$ students.
- 25) **Choice A is correct.** **(3.NF.A.1)** The first of four equal parts is $\frac{1}{4}$.
- 26) **Choice B is correct.** **(3.G.A.2)** $10 \text{ halves} \div 2 \text{ halves per whole} = 10 \div 2 = 5$ wholes.
- 27) **Choice B is correct.** **(3.MD.C.5)** Composite shapes are found by dividing them into non-overlapping rectangles, finding each area, and adding them together. Choice A fails because an L-shape is not a single rectangle. Choices C and D are incorrect methods.
- 28) **Choice B is correct.** **(3.MD.C.6)** The grid is $5 \times 2 = 10$ unit squares = 10 square units.



Hi, Math Pilot!

◇ 7 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

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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



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Types



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