

8

Illinois

IAR

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



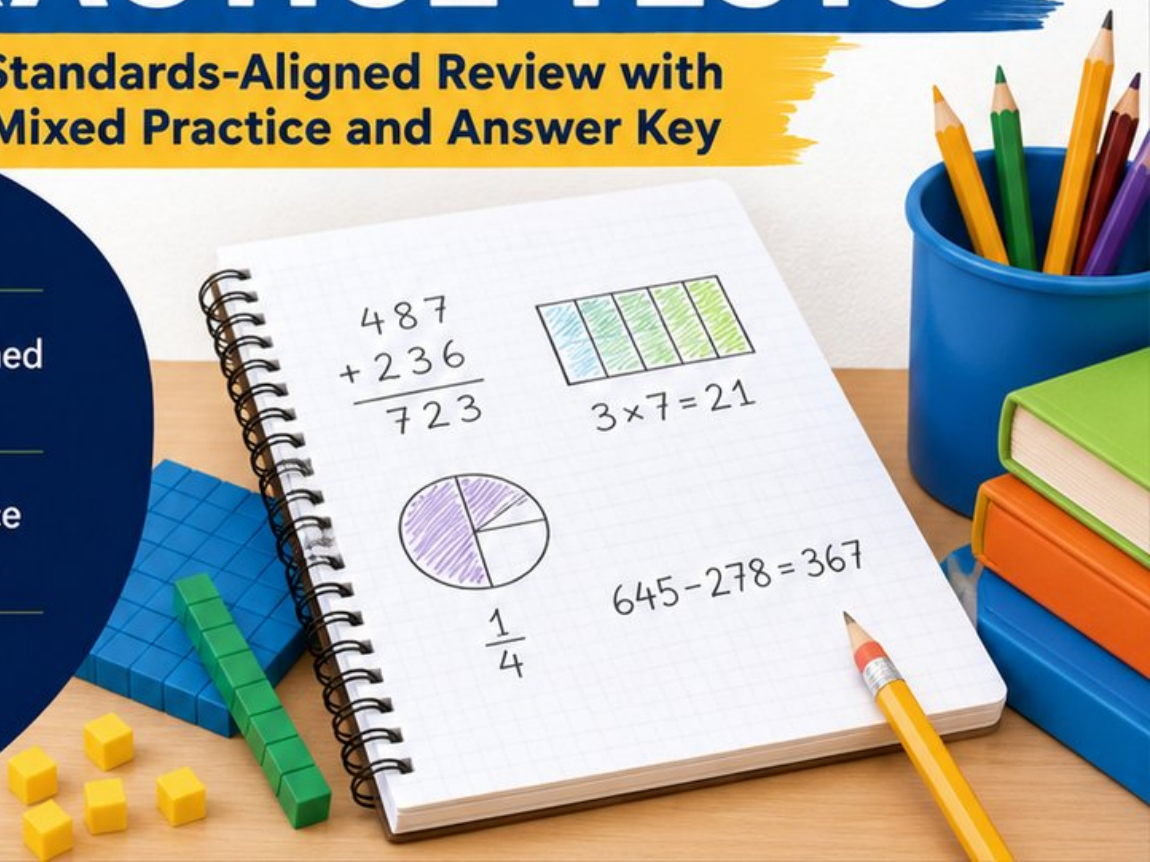
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Illinois IAR Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



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

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Illinois, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Illinois IAR. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Illinois has prairie fields, lakefront paths, river towns, city blocks, and busy classroom routines, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and organize information so the answer is easy to see.

Your Illinois Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this Illinois book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In Illinois, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the IAR

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

Illinois focus: The practice path starts with prairie fields, lakefront paths, river towns, city blocks, and busy classroom routines. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



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& answers

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1) Eli buys 4 boxes of pens. Each box has 8 pens. How many pens does Eli buy in total?


A. 12

B. 28

C. 24

D. 32

2) A rhombus has how many equal sides?



3) A fruit stand has 3 crates of oranges with 7 oranges each and 2 crates of lemons with 8 lemons each. How many pieces of fruit in total?

A. 30

B. 48

C. 40

D. 37

4) Use fact families to solve this: $\square \times 9 = 45$. What is $45 \div 9$?

A. 4

B. 45

C. 9

D. 5

5) A rectangular garden plot measures 5 units by 6 units. Ben wants to cover it with unit square pavers. How many pavers will he need without gaps or overlaps?

A. 11 pavers

B. 30 pavers

C. 22 pavers

D. 36 pavers



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10) Which number rounds to 70 when rounded to the nearest 10?

A. 64

C. 75

B. 76

D. 67

11) Sam's swim practice starts at 4 : 30 PM and ends at 5 : 42 PM. How many minutes is the practice?

A. 60 minutes

C. 72 minutes

B. 70 minutes

D. 75 minutes



12)

8 units

Count the unit squares. What is the area of the rectangle?

A. 40 sq units

C. 13 sq units

B. 32 sq units

D. 64 sq units

13) Which situation can be represented by $12 \div 3$?

A. 12 multiply by 3

D. 12 items shared equally among 3 groups

B. 3 subtract from 12

C. How many groups of 3 make 12



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1) A rectangular garden has a length of 8 m and a width of 6 m. What is the area?

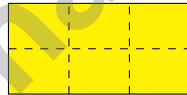
- A. 28 m² C. 14 m²
 B. 42 m² D. 48 m²

2) A picture graph shows flowers. Red flowers: 6 symbols (scale: 3 each). Yellow flowers: 4 symbols (scale: 3 each). What is the total number of flowers?



3) Two identical containers are filled. Container 1 is $\frac{3}{6}$ full. Container 2 is $\frac{1}{2}$ full. Which container has more water?

- A. The containers are different sizes. C. They have the same amount.
 B. Container 2 has more. D. Container 1 has more.



4)

This rectangle is divided into equal parts. How many parts are there?

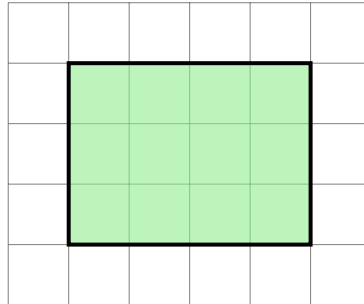
- A. 8 parts C. 5 parts
 B. 4 parts D. 6 parts

5) Lily has a square tablecloth with sides of 8 units each. What is the area of the tablecloth?

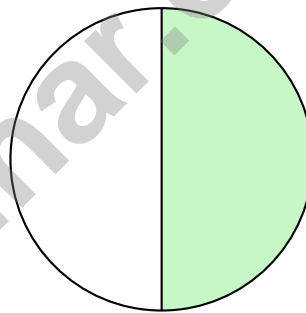
- A. 32 sq units C. 16 sq units
 B. 48 sq units D. 64 sq units



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



- A. Yes, you can count them one by one
- B. No, you must multiply
- C. Only if the shape is a square
- D. Only if you know the perimeter
- 7) Here is a circle divided into 2 equal parts.



Each part of the circle is what fraction of the whole circle?

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

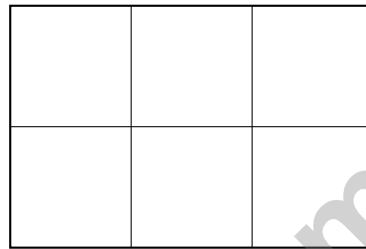


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1) Sam divides a number line from 0 to 1 into 4 equal parts. How many parts are between 0 and the second tick mark?

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

2) A student says that this rectangle is divided so each part is $\frac{1}{4}$. Is the student correct?

 A. Yes, there are 4 parts C. No, the parts are unequal B. No, there are 6 parts, so each is $\frac{1}{6}$ D. Yes, each part is $\frac{1}{4}$

3) Which fraction is NOT equivalent to $\frac{3}{4}$?

 A. $\frac{6}{8}$ C. $\frac{4}{8}$ B. $\frac{9}{12}$ D. $\frac{12}{16}$

4) What number makes the equation true?

$$9 \times \square = 54$$

 A. 8 C. 7 B. 5 D. 6

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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 D is correct.** **(3.OA.A.3)** Multiply: 4 boxes \times 8 pens per box = 32 pens.
- 2) **The correct answer is 4 equal sides.** **(3.G.A.1)** A rhombus is defined by having 4 equal sides. When that rhombus also has 4 right angles (like a rectangle), it meets the definition of a square. A square is the shape that has properties of BOTH a rhombus and a rectangle.
- 3) **Choice D is correct.** **(3.OA.D.8)** Step 1: Oranges: $3 \times 7 = 21$. Step 2: Lemons: $2 \times 8 = 16$. Total: $21 + 16 = 37$ pieces.
- 4) **Choice D is correct.** **(3.OA.B.6)** Since $5 \times 9 = 45$, the missing factor is 5. In a fact family, the division $45 \div 9 = 5$ gives the same answer as the missing factor.
- 5) **Choice B is correct.** **(3.MD.C.5b)** $5 \times 6 = 30$ unit square pavers.
- 6) **Choice D is correct.** **(3.NBT.A.3)** Multiply $5 \times 4 = 20$, then add one zero: $5 \times 40 = 200$. Do not add the digits.
- 7) **Choice C is correct.** **(3.MD.B.3)** Count: 5 squares in the picture graph. Multiply by scale: $5 \times 2 = 10$ stickers.
- 8) **Choice C is correct.** **(3.MD.C.7b)** Area = length \times width = $12 \times 4 = 48$ square feet.
- 9) **Choice B is correct.** **(3.NF.A.2)** $\frac{4}{8}$ and $\frac{2}{4}$ mark the exact same point: the middle of the line. They name the same location.
- 10) **Choice D is correct.** **(3.NBT.A.1)** Numbers from 65 to 74 round to 70. The number 67 has ones digit $7 \geq 5$, so it rounds up to 70.
- 11) **Choice C is correct.** **(3.MD.A.1)** From 4 : 30 to 5 : 30 is 1 hour (60 minutes). From 5 : 30 to 5 : 42 is 12 more minutes. Total: $60 + 12 = 72$ minutes.
- 12) **Choice A is correct.** **(3.MD.C.7)** The grid has 8 columns and 5 rows. Area = $8 \times 5 = 40$ square units. You can also add: $8 + 8 + 8 + 8 + 8 = 40$ (five rows of eight).
- 13) **Choice D is correct.** **(3.OA.A.2)** $12 \div 3$ asks "how many in each group when 12 items are shared equally among 3 groups?" Each group gets 4 items.
- 14) **Choice B is correct.** **(3.NF.A.3)** $\frac{4}{8}$ and $\frac{1}{2}$ both equal half of a whole.
- 15) **Choices A and C are correct.** **(3.NF.A.3c)** When numerator = denominator, the fraction always equals 1 whole. (B) $\frac{3}{1} = 3$, not 1. (D) and (E) are less than 1.
- 16) **Choice A is correct.** **(3.MD.C.5)** $8 \times 3 = 24$ square units, same as Rectangle A.
- 17) **Choice C is correct.** **(3.MD.C.7d)** Top: $3 \times 5 = 15$ sq units. Bottom left: $2 \times 4 = 8$ sq units. Bottom right: $2 \times 4 = 8$ sq units. Total: $15 + 8 + 8 = 31$ sq units.
- 18) **Choice D is correct.** **(3.NBT.A.2)** Start at 0, jump 150 to get to 150, then jump 300 more to get to 450.
- 19) **Choice A is correct.** **(3.OA.A.1)** Three packs with eight erasers each is 3 groups of 8, which equals $3 \times 8 = 24$ or $8 \times 3 = 24$. Option B is the addition misconception. Option C uses only one factor. Option D is incomplete (only two groups).
- 20) **Choice A is correct.** **(3.NF.A.2a)** Divided in half means 2 equal parts. The first tick is at the unit fraction $\frac{1}{2}$.
- 21) **Choice A is correct.** **(3.NF.A.3b)** Ava ate $\frac{2}{3}$ and Lily ate $\frac{4}{6}$. These are equivalent: $\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$.
- 22) **Choice D is correct.** **(3.OA.B.5)** The commutative property of multiplication states that $a \times b = b \times a$. This is why $9 \times 2 = 2 \times 9 = 18$.
- 23) **Choice D is correct.** **(3.OA.C.7)** $56 \div 7 = 8$ because $8 \times 7 = 56$. Seven groups of 8 equals 56.
- 24) **Choice B is correct.** **(3.MD.A.2)** Divide: $2000 \div 5 = 400$ mL per glass.
- 25) **The correct answer is 2 X's.** **(3.MD.B.4)** Two leaves measured exactly $2\frac{1}{4}$ inches, so there would be 2 X's above the $2\frac{1}{4}$ mark.
- 26) **Choice B is correct.** **(3.NF.A.3d)** Three thirds equals one whole. One half is less than one whole. So $\frac{3}{3} > \frac{1}{2}$.
- 27) **The correct answer is 4.** **(3.OA.A.4)** In a fact family, if $4 \times 8 = 32$, then $32 \div 8 = 4$. Multiplication and division are inverse operations.
- 28) **Choice B is correct.** **(3.MD.C.7c)** Add the two areas: $(2 \times 6) + (2 \times 5) = 12 + 10 = 22$ square units.
- 29) **Choice B is correct.** **(3.G.A.2)** $\frac{1}{6}$ of a rectangle divided into 6 parts means shading 1 part.



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Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 8 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

PRACTICE TODAY. MASTER TOMORROW.

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

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



EACH PRACTICE TEST INCLUDES:



Standards-
Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

COVERS ALL ESSENTIAL TOPICS

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



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