

3

Illinois

IAR

GRADE 3

MATH PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



Build Confidence
with Targeted Practice



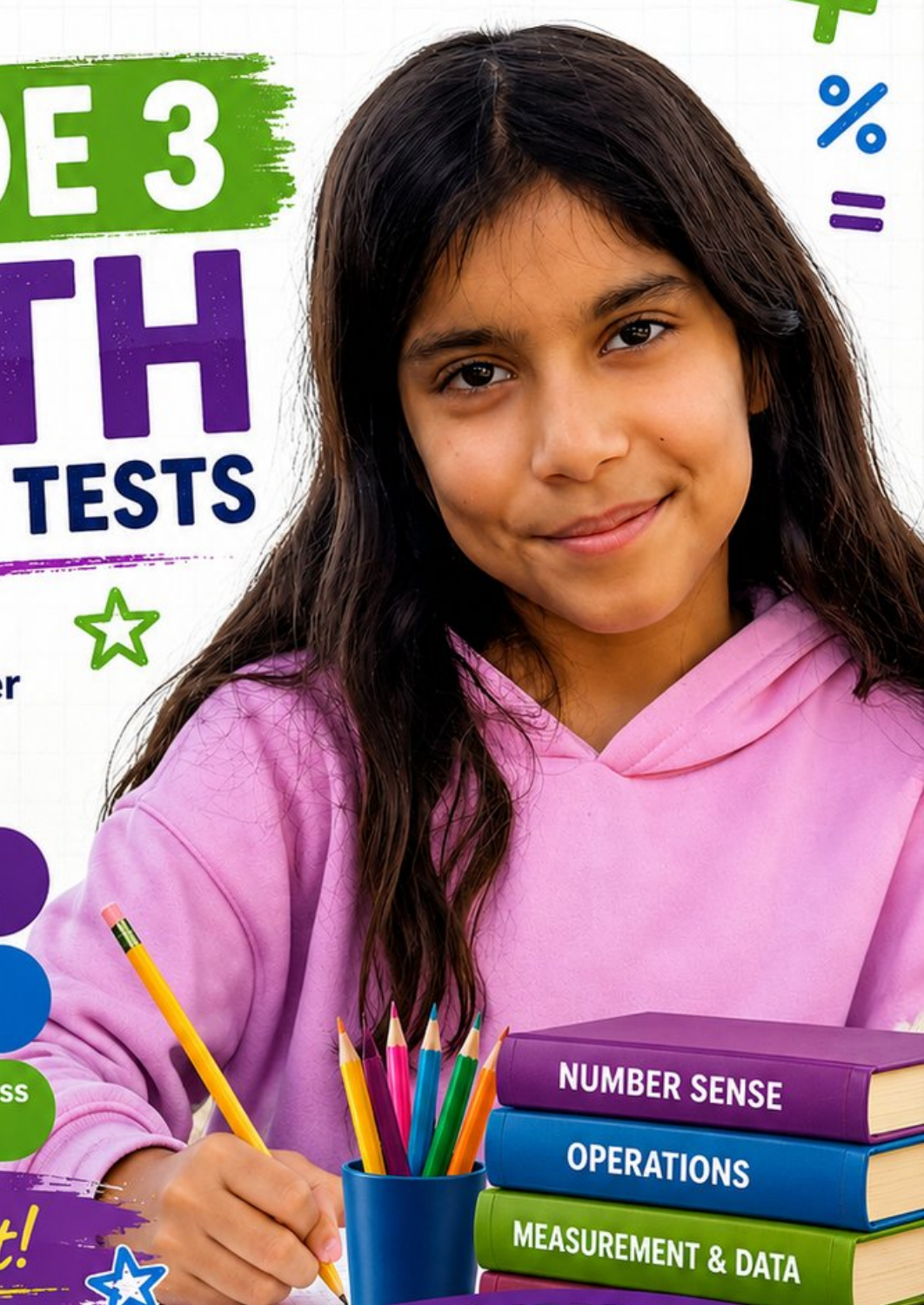
Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice

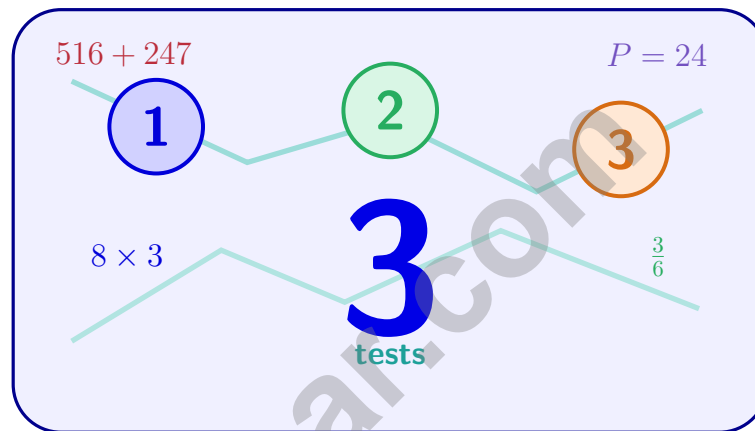


Be Ready.
Do Your Best!



3 Illinois IAR Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 review, Illinois IAR strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

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Welcome to the Illinois Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



To the Grade 3 Trail Scout

This book is your practice trail for the Illinois IAR. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

Spot

Read carefully and find what the problem is really asking.

Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

Signal

Check that your answer makes sense before you wave the next question on.

Trail promise: I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the Illinois IAR asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- 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 shapes
- two-step word problems and explaining a solution path

What strong IAR work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.



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1) A student read $\frac{4}{1}$ books. How many whole books?

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

B. 4

C. 1

D. 8

2) Maya wants to find $298 + 145$ using the “make a friendly number” strategy. Which equation shows the best first step?

A. $(300 - 2) + 145 = 298 + 145$

B. $298 + (150 - 5) = 298 + 145$

C. $(300 + 145) - (2 + 145) = 298 + 145$

D. $298 + 145 = (290 + 140) + (8 + 5)$

3) Look at this number line labeled from 0 to 1 with 6 equal parts. The mark at the first tick represents which fraction?



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

B. $\frac{1}{7}$

C. $\frac{2}{6}$

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

4) A farmer has 6 baskets. Each basket holds 7 apples. How many apples does the farmer have?

A. 36 apples

B. 40 apples

C. 42 apples

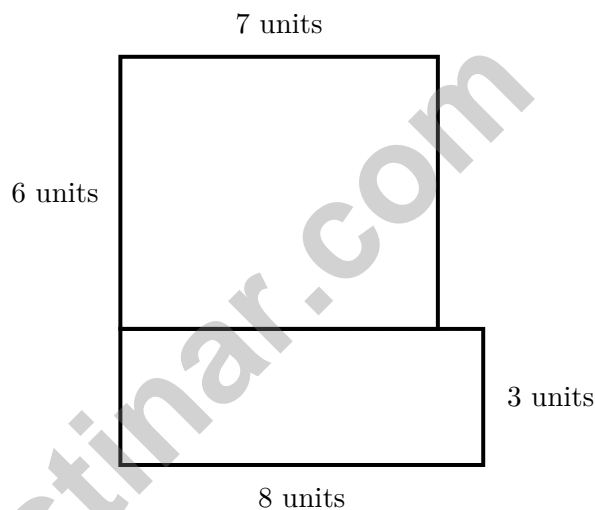
D. 48 apples



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- 9) 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?

- 10) An L-shaped wall is divided by dashed lines. The vertical section is 7 units by 6 units. The horizontal section is 8 units by 3 units. What is the total area?



- | | |
|---|---|
| <input type="checkbox"/> A. 42 sq units | <input type="checkbox"/> C. 66 sq units |
| <input type="checkbox"/> B. 24 sq units | <input type="checkbox"/> D. 1008 sq units |



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5)

How many small squares are in this array?

- A. 8 squares C. 12 squares
 B. 7 squares D. 10 squares

6) In a multiplication table, the diagonal from top-left goes: $1 \times 1 = 1$, $2 \times 2 = 4$, $3 \times 3 = 9$, $4 \times 4 = 16$, $5 \times 5 = 25$.

What pattern do you see?

- A. All numbers are even C. All products are even
 B. Numbers increase by 5 D. Numbers are perfect squares

7) Sam draws a number line from 0 to 2 split into 8 equal parts. He marks $\frac{4}{8}$ of the distance from 0 to 2. At what whole number is his mark?

- A. At 0 C. At 2
 B. Between 1 and 2 D. At 1

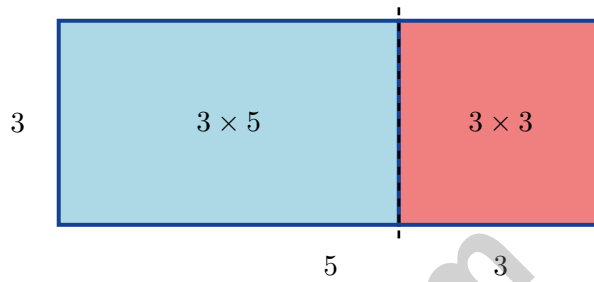


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1) A sack of potatoes weighs 10 kg. A basket of carrots weighs 3000 g. Which weighs more?

- A. Potatoes C. They weigh the same
 B. Carrots D. Cannot determine

2) Mia splits a rectangle to show $3 \times 8 = 3 \times (5 + 3)$.



What is $3 \times 5 + 3 \times 3$?

- A. 14 C. 27
 B. 20 D. 24
- 3) Ben's blanket is a square with sides of 7 meters. What is the area of the blanket?
- A. 14 sq m C. 42 sq m
 B. 28 sq m D. 49 sq m



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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 builds stronger math habits.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(3.NF.A.3c)** $\frac{4}{1} = 4$. Any whole number over 1 equals that number.
- 2) **Choice A is correct.** **(3.NBT.A.2)** Using “make a friendly number,” rewrite 298 as $300 - 2$. Then: $(300 - 2) + 145 = 300 + 145 - 2 = 445 - 2 = 443$. This avoids regrouping in ones. Distractors show other valid decompositions but miss the “friendly number” goal.
- 3) **Choice A is correct.** **(3.NF.A.2a)** Six equal parts means the first tick is at unit fraction $\frac{1}{6}$.
- 4) **Choice C is correct.** **(3.OA.C.7)** 6 baskets with 7 apples each: $6 \times 7 = 42$.
- 5) **Choice A is correct.** **(3.MD.B.4)** Count all the X's: one at 6, one at $6\frac{1}{4}$, two at $6\frac{1}{2}$, one at $6\frac{3}{4}$. Total is 5.
- 6) **Choice B is correct.** **(3.NF.A.2)** On a number line from 0 to 2, the middle tick mark is at 1, which is halfway between 0 and 2.
- 7) **The correct answer is 6.** **(3.OA.A.3)** $30 \div 5 = 6$.
- 8) **Choice C is correct.** **(3.MD.C.5)** Area is the space inside a shape (measured in square units). Perimeter is the distance around a shape (measured in regular units).
- 9) **The correct answer is 4 books.** **(3.MD.B.3)** Maya: $7 \times 2 = 14$. Leo: $5 \times 2 = 10$. Fewer: $14 - 10 = 4$.
- 10) **Choice C is correct.** **(3.MD.C.7d)** Vertical: $7 \times 6 = 42$ sq units. Horizontal: $8 \times 3 = 24$ sq units. Total: $42 + 24 = 66$ sq units.
- 11) **Choice C is correct.** **(3.MD.C.7a)** $5 \times 6 = 30$ square units.
- 12) **Choice A is correct.** **(3.OA.D.8)** Step 1: Marbles per group: $42 \div 7 = 6$ marbles. Step 2: Lose from one group: $6 - 3 = 3$ marbles.
- 13) **Choice A is correct.** **(3.MD.C.7c)** $(2 \times 6) + (2 \times 3) = 12 + 6 = 18$ or $2 \times (6 + 3) = 2 \times 9 = 18$.
- 14) **Choice B is correct.** **(3.MD.D.8)** Perimeter = $2\ell + 2w = 2(8) + 2(5) = 16 + 10 = 26$ cm.
- 15) **Choice D is correct.** **(3.G.A.2)** If one part is $\frac{1}{6}$, then the rectangle must be divided into 6 equal parts.
- 16) **Choice C is correct.** **(3.MD.C.5b)** $4 \times 4 = 16$ unit squares, area is 16 square units.
- 17) **Choices B and C are correct.** **(3.MD.C.7b)** Area of a rectangle = length \times width = $8 \times 5 = 40$ square feet. Choice E is false because 8×5 equals 40, not 45. Perimeter is found by adding all four sides.
- 18) **Choice D is correct.** **(3.OA.D.9)** Each number increases by 6. These are multiples of 6: $36 + 6 = 42$.
- 19) **Choice A is correct.** **(3.NBT.A.1)** The tens digit is 3. Since $3 < 5$, round down: 137 rounds to 100.
- 20) **Choice A is correct.** **(3.NF.A.1)** Adding four unit fractions of $\frac{1}{6}$ gives $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{4}{6}$.
- 21) **Choice B is correct.** **(3.G.A.1)** In a square (and all rectangles and rhombuses), both pairs of opposite sides are parallel.
- 22) **Choice A is correct.** **(3.OA.A.4)** If $72 \div 8 = 9$, then 8×9 must equal 72.
- 23) **Choice C is correct.** **(3.NF.A.3b)** Pie 1 shows $\frac{1}{4}$ and Pie 2 shows $\frac{2}{8}$. Both show one-quarter shaded. They are equivalent: $\frac{1 \times 2}{4 \times 2} = \frac{2}{8}$.
- 24) **Choice B is correct.** **(3.NBT.A.3)** The chart shows 6 tens and 0 ones, which is $6 \times 10 = 60$.
- 25) **Choice B is correct.** **(3.MD.C.7)** Area = $7 \times 2 = 14$ square inches.
- 26) **Choice A is correct.** **(3.NF.A.3)** Both bars show the same amount shaded. $\frac{3}{4}$ and $\frac{6}{8}$ are equivalent.
- 27) **Choice D is correct.** **(3.OA.B.6)** The bar is divided into 6 equal parts with a total of 48. Each part is $48 \div 6 = 8$. You can check: $8 \times 6 = 48$.
- 28) **Choice B is correct.** **(3.MD.A.1)** The minute hand on 3 means 15 minutes. The hour hand between 11 and 12 means the hour is 11. So the time is 11 : 15.
- 29) **The correct answer is 1.** **(3.NF.A.3a)** $\frac{2}{4} = \frac{1}{2}$, so she ate 1 half.
- 30) **Choice D is correct.** **(3.MD.C.6)** $5 \times 8 = 40$ unit squares.

Practice Test 2 Answers and Explanations

Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 3 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 3 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. **Succeed** Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

What's Inside?



Standards-Aligned Practice

Questions designed to cover essential Grade 3 math standards.



Variety of Question Types

Multiple-choice, short answer, and more to build well-rounded skills.



Real-World Applications

Engaging problems that connect math to everyday life.



Step-by-Step Progress

Track improvement and build confidence with every test.



Build Skills & Boost Confidence

Strengthen understanding and feel prepared for test day.

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!



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