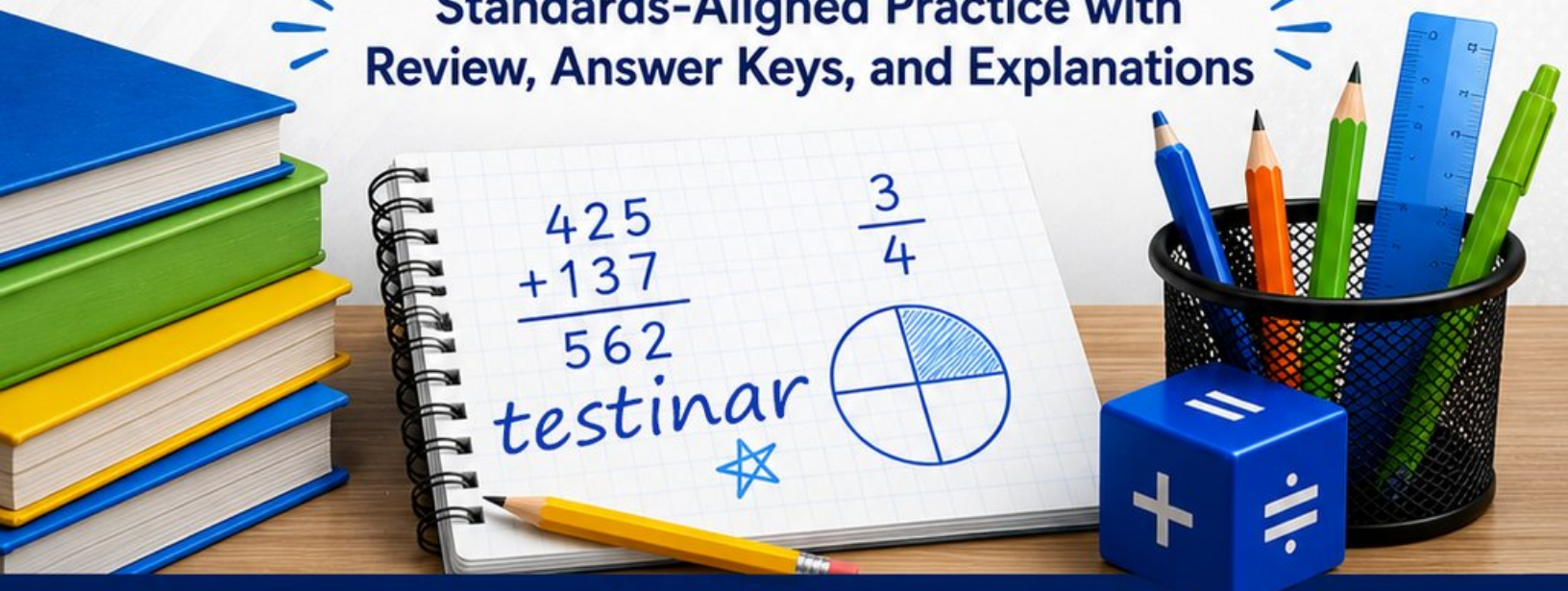
6 Illinois IAR

GRADE 3 MATH PRACTICE TESTS

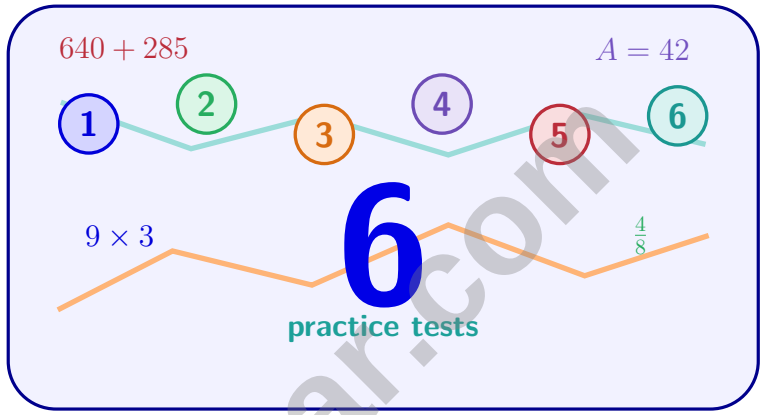
Standards-Aligned Practice with Review, Answer Keys, and Explanations



- 6 Full-Length Practice Tests
- Detailed Answer Keys and Explanations
- Master Skills. Boost Scores. Succeed!

6 Illinois IAR Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question practice labs for Grade 3 math: operations, 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

Welcome to the Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver

Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the Illinois IAR. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Illinois brings prairie fields, lakefront paths, river towns, and city blocks. Strong math uses that same care: read the task, select a strategy, build the solution, and organize information so the answer is easy to see.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Illinois students, each lab is a short route through prairie fields, lakefront paths, river towns, and city blocks: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.

What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
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 Illinois 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 Illinois IAR path.

Table of Contents

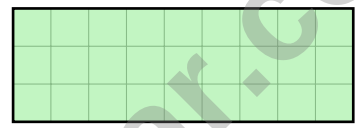
★ Practice Test 1 ____ 14
★ Practice Test 2 ____ 26
★ Practice Test 3 ____ 38
★ Practice Test 4 ____ 49
★ Practice Test 5 ____ 61
★ Practice Test 6 ____ 74
Practice Test Answer Keys ____ 86
Practice Test Answers and Explanations ____ 90

1) A cake is divided into 6 equal pieces. If you eat $\frac{1}{6}$, $\frac{1}{6}$, and $\frac{1}{6}$, how much of the cake do you eat in total?

☐ A. $\frac{3}{6}$
☐ B. $\frac{1}{6}$
☐ C. $\frac{1}{18}$
☐ D. $\frac{3}{1}$

2) 15 apples are shared equally among 3 baskets. Find $15 \div 3$ to show how many apples are in each basket.

3) On this grid, how many unit squares fill the rectangle?



☐ A. 12 sq units
☐ B. 18 sq units
☐ C. 24 sq units
☐ D. 27 sq units

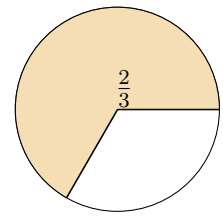
4) If a number line from 0 to 1 is split into 3 equal parts, what fraction marks the first partition?

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

5) A school has 72 students going on a field trip. They are divided equally into 8 buses. Then 6 more students join one bus. How many students are on that bus now?

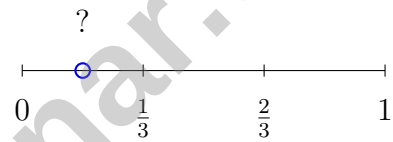
☐ A. 9
☐ B. 10
☐ C. 15
☐ D. 24

6) Which fraction is equivalent to $\frac{2}{3}$?



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

7)



The blue dot is halfway between 0 and $\frac{1}{3}$. Which comparison is true?

☐ A. The dot $> \frac{1}{3}$
☐ B. The dot $< \frac{1}{3}$
☐ C. The dot $= \frac{2}{3}$
☐ D. The dot $= 0$

8) Round 476 to the nearest 100.

☐ A. 400
☐ B. 470
☐ C. 475
☐ D. 500

9)

100
90
5

→ Regroup?

Which regrouping step is needed to add $195 + 210$?

☐ A. Regroup tens to hundreds
☐ B. Regroup hundreds to tens
☐ C. No regrouping needed
☐ D. Regroup twice

10) A classroom has 2 shelves. Each shelf has 9 books. How many books are on the shelves?

☐ A. 18
☐ B. 11
☐ C. 20
☐ D. 7

11) If $7 \times 9 = 63$, what is 9×7?

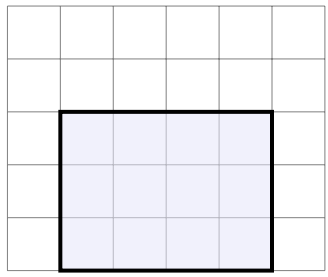
12) Maria has 56 cookies. She puts them equally into 7 boxes. How many cookies go in each box?

☐ A. 7 cookies
☐ B. 63 cookies
☐ C. 49 cookies
☐ D. 8 cookies

1) Eli found that $6 \times 7 = 42$. Now he needs to find 7×6. What does he know?

☐ A. $7 \times 6 = 41$
☐ B. $7 \times 6 = 49$
☐ C. $7 \times 6 = 43$
☐ D. $7 \times 6 = 42$

2) Look at the grid. What is the area of this shaded region?



☐ A. 9 square units
☐ B. 12 square units
☐ C. 10 square units
☐ D. 15 square units

3) What is $54 \div 9$?

4) Sam has 234 marbles. He finds 167 more marbles. How many marbles does Sam have now?

☐ A. 401
☐ B. 402
☐ C. 400
☐ D. 391

5) A rectangle has a width of 3 feet and a length of 8 feet. The rectangle has 8 rows with 3 unit squares in each row. Find the area by adding: $3+3+3+3+3+3+3+3=?$

☐ A. 11 sq ft
☐ B. 16 sq ft
☐ C. 24 sq ft
☐ D. 32 sq ft

6) What is $2+2+2+2+2$? What multiplication sentence matches this?

7) A number line shows the distance from 0 to 1 split into 4 equal parts. Where is $\frac{1}{4}$ located?

☐ A. At the first tick mark
☐ B. At the second tick mark
☐ C. At the third tick mark
☐ D. At the fourth tick mark

8) Eli has 5 coin pouches. Each pouch has 4 coins. How many coins does Eli have altogether?

☐ A. 9
☐ B. 1
☐ C. 15
☐ D. 20

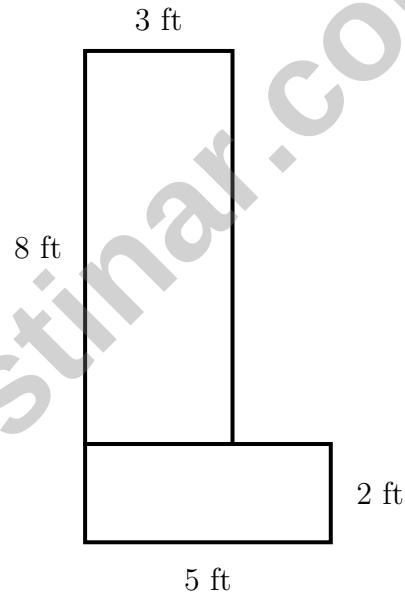
1) What is 3×8?

☐ A. 24
☐ B. 28
☐ C. 30
☐ D. 32

2) A number line is divided into equal parts. The first tick after 0 is at $\frac{1}{6}$. Where is the third tick?

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

3) An L-shaped garden is divided into two rectangles by a dashed line. The vertical part is 3 ft by 8 ft. The horizontal part is 5 ft by 2 ft. What is the total area?



☐ A. 10 sq ft
☐ B. 24 sq ft
☐ C. 34 sq ft
☐ D. 240 sq ft

4) A picture graph shows apples in baskets. The key says each apple symbol represents 5 apples. Basket A has 2 symbols and Basket B has 4 symbols. How many apples are there in total in both baskets?

5) Eli shares 24 pencils equally among 3 friends. How many pencils does each friend get?

☐ A. 8
☐ B. 7
☐ C. 6
☐ D. 4

6)

□□□□
□□□□
□□□□

What repeated addition matches this array?

☐ A. $4+3+3=10$
☐ B. $3+3+3=9$
☐ C. $3+4=7$
☐ D. $4+4+4=12$

7) Which rectangle has an area of 12 square units?

☐ A. length 2, width 6
☐ B. length 3, width 5
☐ C. length 4, width 4
☐ D. length 2, width 5

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.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice A is correct.** 3.NF.A.1 When you count three unit fractions of $\frac{1}{6}$, you add: $\frac{1}{6}+\frac{1}{6}+\frac{1}{6}=\frac{3}{6}$.
2) **The correct answer is** 5. 3.OA.A.2 $15\div 3=5$. Each basket has 5 apples.
3) **Choice D is correct.** 3.MD.C.6 $9\times 3=27$ unit squares.
4) **Choice B is correct.** 3.NF.A.2a Splitting from 0 to 1 into three equal parts gives $\frac{1}{3}$ for each.
5) **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.
6) **Choice A is correct.** 3.NF.A.3 $\frac{2}{3}$ and $\frac{4}{6}$ represent the same amount. Both show two-thirds.
7) **Choice B is correct.** 3.NF.A.3d The blue dot is halfway between 0 and $\frac{1}{3}$, so it represents $\frac{1}{6}$. Since $\frac{1}{6}<\frac{1}{3}$, the dot is to the left of $\frac{1}{3}$.
8) **Choice D is correct.** 3.NBT.A.1 The tens digit is 7. Since $7\geq 5$, round up: 476 rounds to 500.
9) **Choice A is correct.** 3.NBT.A.2 $195+210$: ones $5+0=5$. Tens $9+1=10$, so regroup 10 tens as 1 hundred. Then hundreds $1+2+1=4$, giving 405.
10) **Choice A is correct.** 3.OA.A.3 Multiply: 2 shelves × 9 books per shelf = 18 books.
11) **The correct answer is** 63. 3.OA.B.5 The commutative property gives $9\times 7=63$.
12) **Choice D is correct.** 3.OA.C.7 $56\div 7=8$ cookies in each box. Verify: $8\times 7=56$. Distractors: C is $56-7$; D is 7×9.
13) **Choice D is correct.** 3.OA.A.1 The picture shows 4 rows with 3 circles in each row. This is 4 groups of 3, so $4\times 3=12$.
14) **Choice B is correct.** 3.MD.C.7b Area = length × width $=5\times 3=15$ square inches. Choice A (8) is the sum; C (10) is 5×2; D (12) is 4×3.
15) **Choice A is correct.** 3.OA.B.6 To solve $54\div 9=\square$, think: $\square\times 9=54$. The multiplication fact $9\times 6=54$ directly gives the answer 6.
16) **Choices B and D are correct.** 3.NF.A.2b The midpoint is $\frac{3}{6}$. Points equidistant on either side are $\frac{2}{6}$ (one sixth below) and $\frac{4}{6}$ (one sixth above). Distractor $\frac{1}{6}$ is two sixths below. Distractor $\frac{5}{6}$ is two sixths above. Distractor $\frac{3}{6}$ is the midpoint.
17) **Choice B is correct.** 3.NBT.A.3 In 90, the 9 is in the tens place (representing 9 tens, or 9×10). The 0 is in the ones place. So 90 = 9 tens + 0 ones.
18) **Choice A is correct.** 3.MD.C.5 Shape 1: $2\times 10=20$ square units. Shape 2: $4\times 5=20$ square units. They have equal areas.
19) **The correct answer is** $70\frac{1}{2}$. 3.MD.B.4 The value with the most X marks is $70\frac{1}{2}$, with 3 X's.
20) **Choice A is correct.** 3.G.A.1 A square has 4 equal sides (making it a rhombus) and 4 right angles (making it a rectangle). So a square is both.
21) **Choice B is correct.** 3.MD.A.2 3 kg = 3000 g. Add: $3000+500=3500$ g.
22) **Choice B is correct.** 3.NF.A.3c The bar shows 4 halves. 4 halves make 2 whole units. $\frac{4}{2}=2$.
23) **Choice B is correct.** 3.G.A.2 One half divided into 2 equal parts creates quarters. One quarter is $\frac{1}{4}$.
24) **Choice B is correct.** 3.MD.C.7 Area $=5\times 2=10$ square meters. This is 5 rows of 2 unit squares (or $2+2+2+2+2=10$).
25) **Choice B is correct.** 3.MD.A.1 $7:20+87$ min $=7:20+60$ min $+27$ min $=8:20+27$ min $=8:47$ PM.
26) **Choice D is correct.** 3.NF.A.2 This number line has thirds (3 equal parts), so only fractions with denominator 3 or 1 are tick marks. $\frac{1}{4}$ would need 4 equal parts.
27) **Choice A is correct.** 3.NF.A.3a Both bars show the same shaded region (one-half of each bar). They are equivalent fractions.
28) **Choice D is correct.** 3.MD.C.5b $7\times 7=49$ unit square tiles.

A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 6 practice tests is a real promise that you kept to yourself. That matters. ◇

⋆ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ⋆

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

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

Jay Daie

Your Math Mentor

BUILD CONFIDENCE. MASTER MATH. ACHIEVE SUCCESS!

This Grade 3 Math Practice Tests book is the perfect companion for students who want to strengthen their math skills and excel in school. With 6 full-length practice tests designed to reflect real test formats, students get the practice they need to understand key concepts, build problem-solving skills, and tackle any challenge with confidence.

PERFECT FOR:

- Classroom Practice
- Homework & Review
- Test Preparation

PREPARE TODAY. SUCCEED TOMORROW!

WHAT STUDENTS WILL GAIN:

Stronger Concepts
Reinforce key Grade 3 math skills and build a solid foundation.

Better Problem Solving
Develop critical thinking and solve problems with ease.

Test Confidence
Get familiar with test formats and reduce exam stress.

Track Progress
Measure improvement and focus on areas that matter.

Achieve Success
Build the skills and confidence to reach higher goals.

TOPICS COVERED:

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

Visit testinar.com/math5 for more Grade 3 math resources and practice materials!

PRACTICE MORE. ACHIEVE MORE.
Give your child the tools they need to succeed in math and beyond!

Aligns with Grade 3 Learning Standards

Builds Critical Thinking & Problem-Solving