

7

Illinois

IAR

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



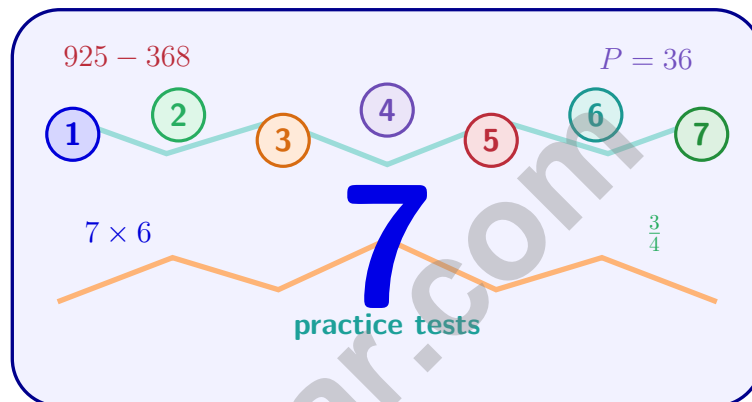
Build Confidence.
Achieve Success.

PREPARE
PRACTICE
SUCCEED



7 Illinois IAR 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.

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

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.

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 Illinois students, each trail moves through prairie fields, lakefront paths, river towns, city blocks, and busy classroom routines: 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 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.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	26
★ Practice Test 3	_____	38
★ Practice Test 4	_____	51
★ Practice Test 5	_____	64
★ Practice Test 6	_____	76
★ Practice Test 7	_____	89
Practice Test Answer Keys	_____	102
Practice Test Answers and Explanations	_____	107

1) What is $45 \div 5$?

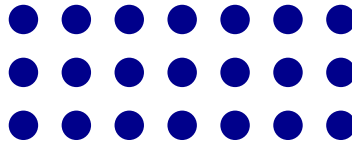
A. 8

C. 10

B. 11

D. 9

2) Look at this array. It has 3 rows and columns. There are 21 dots in total.



$$3 \times \square = 21$$

A. 9

C. 6

B. 8

D. 7

3) A garden has 2 rows of tomato plants with 4 plants in each row. Plus 3 pepper plants. How many plants are there in total?

A. 8

C. 13

B. 11

D. 15

4) Round 283 to the nearest 10.

A. 280

C. 290

B. 283

D. 300

5) Ben ate $\frac{1}{4}$ of a sandwich. Mia ate $\frac{1}{2}$ of a sandwich of the same size. Who ate more?

A. Ben ($4 > 2$, so fourths are more)

D. Cannot tell without knowing the sandwich size

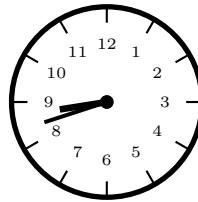
B. Mia

C. They ate the same amount

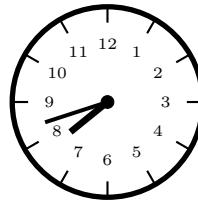


6) Which clock shows 8 : 42?

Option A



Option B



A. Option A

B. Option B

C. Neither

D. Both

7) Sofia has 18 flowers. She puts them into 2 equal bouquets. How many flowers are in each bouquet?

A. 8 flowers

B. 11 flowers

C. 10 flowers

D. 9 flowers

8) A shape has exactly 4 sides and exactly 4 right angles. Which could it be?

A. Rhombus only

B. Trapezoid only

C. Square or rectangle

D. Triangle

9) A pitcher contains 800 mL of lemonade. Ben pours 200 mL into glasses and 150 mL into a bowl. How many milliliters of lemonade remain?



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10) A picture graph shows apples in bags. Look at the key and count the symbols.

Key: ● = 5 apples

Bag 1: ● ● ●

Bag 2: ● ● ● ●

- A. Bag 1 has 15 apples, Bag 2 has 20 apples.
- B. Bag 1 has 3 apples, Bag 2 has 4 apples.
- C. Bag 1 has 15 apples, Bag 2 has 10 apples.
- D. Bag 1 has 20 apples, Bag 2 has 15 apples.
- 11) A composite shape is made of a 7 ft by 2 ft rectangle and a 3 ft by 3 ft rectangle joined together. What is the total area?



12) What is 9×80 ?

- A. 72 (forgot to multiply by 10)
- B. 7200 (added two zeros)
- C. 89 (added the digits)
- D. 720
- 13) How many unit squares (1 in. \times 1 in.) cover a 3 in. by 6 in. rectangle?
- A. 9 unit squares
- B. 12 unit squares
- C. 18 unit squares
- D. 24 unit squares



1) A glass of water weighs 250 grams. A glass of milk weighs 280 grams. How much heavier is the glass of milk?

A. 20 g

C. 250 g

B. 30 g

D. 530 g

2) Which fraction equals the whole number 3?

A. $\frac{1}{3}$

C. $\frac{1}{1}$

B. $\frac{3}{1}$

D. $\frac{3}{3}$

3) Which fact family includes the division $56 \div 8 = 7$?

A. $6 \times 8 = 48$, $48 \div 6 = 8$, $48 \div 8 = 6$

C. $8 \times 8 = 64$, $64 \div 8 = 8$

B. $7 \times 7 = 49$, $49 \div 7 = 7$

D. $7 \times 8 = 56$, $56 \div 7 = 8$, $56 \div 8 = 7$

4) Sam reads 24 pages of a book. He reads the same number of pages each day for 6 days. How many pages does he read each day?

A. 3

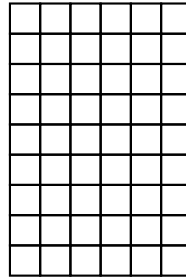
C. 5

B. 30

D. 4



- 5) A rectangular playground is 6 unit squares wide and 9 unit squares long. Look at the grid:



How many unit squares cover the playground?

- A. 15 unit squares (just one row and column)
- B. 54 unit squares
- C. 48 unit squares
- D. 72 unit squares



6)

Are these fractions equal?

- A. Yes, they are equal
- B. No, $\frac{1}{2}$ is larger
- C. No, $\frac{2}{4}$ is larger
- D. Cannot tell
- 7) Sam starts his homework at 3 : 20 PM. He finishes at 3 : 55 PM. How many minutes did Sam spend on homework?
- A. 30 minutes
- B. 35 minutes
- C. 40 minutes
- D. 20 minutes



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1) 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

2) A number line from 0 to 1 has 4 tick marks dividing it equally (not counting 0 and 1). Each part is $\frac{1}{5}$. What is true?

A. There are 4 equal parts

C. There are 6 equal parts

B. There are 5 equal parts

D. There are 3 equal parts

3) Look at these two rectangles. Rectangle A is 6 units by 2 units. Rectangle B is 3 units by 4 units. Which has the greater area?



Rectangle A
 6×2



Rectangle B
 3×4

A. Rectangle A

C. Cannot determine

B. Rectangle B

D. They are equal

4) Round 537 to the nearest 10. What is the answer?



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5) Which picture shows 10 items divided equally into 2 groups?

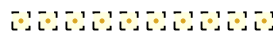
- A. Two groups of five



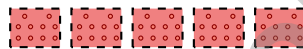
- B. Five groups of two



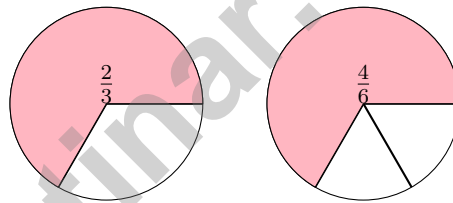
- C. Ten groups of one



- D. Five groups of ten



6) Look at the pies. Are $\frac{2}{3}$ and $\frac{4}{6}$ equivalent?



- A. Yes, they are equivalent
- B. No, the first is larger
- C. No, the second is larger
- D. They are different fractions

7) What number makes the equation true?

$$\square \div 2 = 9$$

- A. 19
- B. 16
- C. 17
- D. 18



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.C.7)** $45 \div 5 = 9$ because $9 \times 5 = 45$. Count by fives: 5, 10, 15, 20, 25, 30, 35, 40, 45.
- 2) **Choice D is correct.** **(3.OA.A.4)** Divide: $21 \div 3 = 7$ columns. Check: $3 \times 7 = 21$.
- 3) **Choice B is correct.** **(3.OA.D.8)** Step 1: Multiply: $2 \times 4 = 8$ tomato plants. Step 2: Add: $8 + 3 = 11$ plants. (Choice A is step 1 only.)
- 4) **Choice A is correct.** **(3.NBT.A.1)** The ones digit is 3. Since $3 < 5$, round down: 283 rounds to 280.
- 5) **Choice B is correct.** **(3.NF.A.3d)** Same numerator (1), different denominators: halves are bigger pieces than fourths. So $\frac{1}{2} > \frac{1}{4}$. Mia ate more because she had one piece of a larger size.
- 6) **Choice A is correct.** **(3.MD.A.1)** At 8:42, the minute hand is between 8 and 9, and the hour hand is between 8 and 9 closer to 9. Option A shows this correctly.
- 7) **Choice D is correct.** **(3.OA.B.6)** $18 \div 2 = \square$ means $\square \times 2 = 18$. Since $9 \times 2 = 18$, each bouquet has 9 flowers.
- 8) **Choice C is correct.** **(3.G.A.1)** Any 4-sided shape with 4 right angles is either a rectangle or a square. A square is just a special rectangle with equal sides.
- 9) **The correct answer is 450 mL.** **(3.MD.A.2)** Subtract total poured out: $200 + 150 = 350$ mL. Remaining: $800 - 350 = 450$ mL.
- 10) **Choice A is correct.** **(3.MD.B.3)** Count the symbols in the picture graph and multiply each count by the scale.
- 11) **The correct answer is 23 square feet.** **(3.MD.C.7d)** Rectangle 1: $7 \times 2 = 14$ sq ft. Rectangle 2: $3 \times 3 = 9$ sq ft. Total: $14 + 9 = 23$ sq ft.
- 12) **Choice D is correct.** **(3.NBT.A.3)** Multiply $9 \times 8 = 72$, then multiply by 10 to get 720: $9 \times 80 = (9 \times 8) \times 10 = 72 \times 10 = 720$.
- 13) **Choice C is correct.** **(3.MD.C.5a)** A 3 in. \times 6 in. rectangle contains $3 \times 6 = 18$ unit squares of 1 in. each.
- 14) **Choices A and C are correct.** **(3.MD.C.5)** A is correct: area uses square units (sq in, sq cm, etc.). C is correct: the formula is $A = \ell \times w$. B is wrong: that is perimeter. D is wrong: they measure different things. E is wrong: perimeter and area are independent.
- 15) **Choice D is correct.** **(3.OA.A.1)** Three tables with nine chairs each means 3 groups of 9. So $3 \times 9 = 27$ chairs. Option B is a common misconception (adding instead of multiplying); C confuses the first factor; D confuses operation.
- 16) **Choice A is correct.** **(3.MD.C.6)** Area = $8 \times 4 = 32$ square centimeters.
- 17) **Choice D is correct.** **(3.NBT.A.2)** Add: $127 + 234 = 361$. Ones: $7 + 4 = 11$ (write 1, carry 1). Tens: $2 + 3 + 1 = 6$. Hundreds: $1 + 2 = 3$.
- 18) **Choice A is correct.** **(3.MD.C.7b)** Area = width \times height = $11 \times 9 = 99$ square inches.
- 19) **Choice D is correct.** **(3.OA.A.3)** Area of a square = side \times side = $5 \times 5 = 25$ cm².
- 20) **Choice B is correct.** **(3.NF.A.3b)** Multiply numerator and denominator by 2: $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$.
- 21) **Choice C is correct.** **(3.MD.D.8)** $32 \div 4 = 8$ ft per side.
- 22) **Choice A is correct.** **(3.NF.A.2a)** Six equal parts means each is $\frac{1}{6}$.
- 23) **The correct answer is 20.** **(3.OA.D.9)** The row for 5 shows 10, 15, and then 20. Each number increases by 5 because we multiply 5 by 2, then 3, then 4. So $5 + 5 = 10 + 5 = 15 + 5 = 20$.
- 24) **Choice C is correct.** **(3.NF.A.2)** $\frac{1}{2}$ divides the distance into two equal parts, so it is exactly in the middle.
- 25) **Choice C is correct.** **(3.MD.C.7c)** Two equal rectangles each have area 14. Add the two parts: $14 + 14 = 28$ square units.
- 26) **Choice D is correct.** **(3.OA.A.2)** This is measurement division: How many groups of 10 fit in 30? $30 \div 10 = 3$.
- 27) **Choice B is correct.** **(3.NF.A.3c)** Any whole number n equals $\frac{n}{1}$. So $6 = \frac{6}{1}$.
- 28) **Choice B is correct.** **(3.MD.C.5b)** The pink square is still one of the unit squares. The rectangle has $4 \times 3 = 12$ distinct unit squares.
- 29) **Choice B is correct.** **(3.MD.C.7)** Area = $2 \times 3 = 6$ square cm.
- 30) **Choice B is correct.** **(3.MD.B.4)** At $8\frac{1}{2}$ there are no X's, so it appears least often.



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Ahoy, Math Sailor!

◇ You sailed through 7 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 7 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

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:



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

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
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