

5

Illinois

IAR

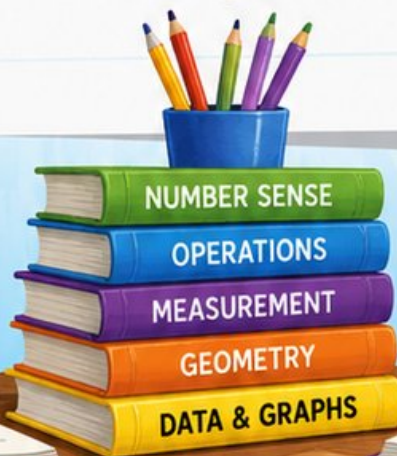
GRADE 3

MATH

PRACTICE TESTS

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

$24 \div 3 = 8$



5 FULL-LENGTH PRACTICE TESTS



STANDARDS-ALIGNED PRACTICE



DETAILED ANSWER KEYS



CLEAR EXPLANATIONS TO HELP YOU SUCCEED

5 Illinois IAR Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five focused 30-question checkpoints for Grade 3 math: facts, 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 Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Illinois IAR. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Illinois has prairie roads, lakefront views, city grids, and neighborhoods where math shows up daily. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

Notice

Circle key words, units, and numbers before you start.

Build

Use arrays, number lines, equations, tables, or sketches.

Verify

Ask, “Does this answer fit the question?”

Five-checkpoint promise: I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

Best review habit: Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	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. That mix gives students practice with quick choices, careful reasoning, and short written answers.



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Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	39
★ Practice Test 4	_____	52
★ Practice Test 5	_____	64
Practice Test Answer Keys	_____	75
Practice Test Answers and Explanations	_____	79

1) Ava buys 4 packs of crayons with 9 crayons in each pack. She already has 7 crayons. Let c be the total number of crayons. Which equation shows how to find c ?

A. $c = 4 + 9 + 7$

C. $c = 4 \times 9 \times 7$

B. $c = 9 + 7 - 4$

D. $c = (4 \times 9) + 7$

2) Compare two fractions on a number line from 0 to 1 divided into 4 equal parts: $\frac{1}{4}$ and $\frac{3}{4}$. Which is closer to 1?

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

 C. They are equally close

B. $\frac{3}{4}$

 D. Neither is close to 1

3) A composite shape has areas given as 20 sq units and 15 sq units. What is the total area?

A. 5 sq units

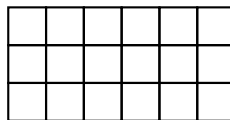
C. 300 sq units

B. 35 sq units

D. 40 sq units

4) The products in the row for 6 are 6, 12, 18, 24, 30, 36, 42, 48. What is 6×8 ? Explain the pattern.

5) Ben's garden is a rectangle. Looking at this grid, each square is one unit square tile:



How many unit square tiles does Ben need to cover his garden?

A. 9 tiles

C. 12 tiles

B. 18 tiles

D. 17 tiles



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6) A soccer game starts at 10 : 25 AM. It ends at 11 : 20 AM. How many minutes long is the game?

- A. 55 minutes C. 65 minutes
 B. 50 minutes D. 60 minutes

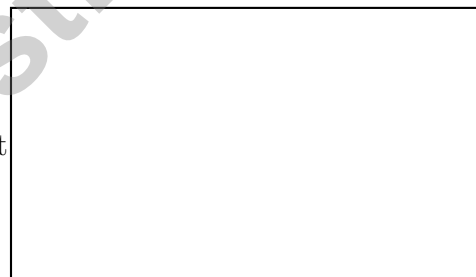
7) Which situation can be solved using $24 \div 6$?

- A. 24 cookies shared equally among 6 friends
 B. 6 items split between 24 people
 C. 24 times 6
 D. 24 plus 6

8) This number line goes from 0 to 1 with 6 equal parts. The shaded region shows one part. What is the unit fraction?



- A. $\frac{1}{6}$ C. $\frac{2}{6}$
 B. $\frac{1}{5}$ D. $\frac{3}{6}$



9) Find the area of the rectangle above.

- A. 22 sq ft C. 14 sq ft
 B. 32 sq ft D. 28 sq ft



10) Round 158 to the nearest 100.

A. 100

C. 158

B. 150

D. 200

11) Noah has a watering can that holds 3 liters. He pours out 1500 mL to water the plants. How many milliliters of water are left in the can?

A. 1000 mL

C. 2000 mL

B. 1500 mL

D. 3000 mL

12) A picture graph shows coins saved. Each symbol is 5 coins. Ty saved 6 symbols, Kim saved 8 symbols. How many fewer coins does Ty have than Kim?

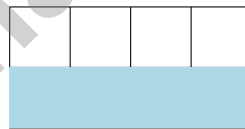
A. 2 coins

C. 15 coins

B. 10 coins

D. 30 coins

13) Look at the rectangle divided into 8 equal parts. Which fraction in eighths describes the shaded part?



A. $\frac{1}{8}$

C. $\frac{4}{8}$

B. $\frac{2}{8}$

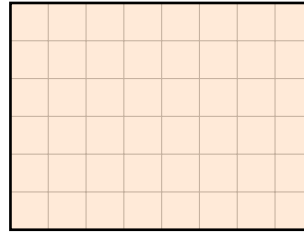
D. $\frac{3}{8}$

14) Find $(2 \times 3) \times 4$.



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- 1) On a grid, a rectangle is 8 units long and 6 units wide.

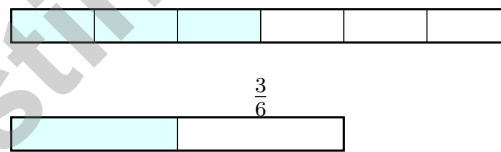


How many unit squares fill it?

- A. 28 sq units C. 48 sq units
 B. 42 sq units D. 56 sq units
- 2) Two fraction bars are shown. Bar 1 shows $\frac{2}{3}$ shaded. Bar 2 shows $\frac{4}{6}$ shaded. The shaded regions are the same size. Which statement is true?

- A. $\frac{2}{3} < \frac{4}{6}$ C. $\frac{2}{3} = \frac{4}{6}$
 B. $\frac{2}{3} > \frac{4}{6}$ D. Cannot be compared

- 3) Find a fraction equivalent to $\frac{3}{6}$. Look at the bars.



- A. $\frac{2}{5}$ C. $\frac{1}{3}$
 B. $\frac{1}{2}$ D. $\frac{2}{6}$



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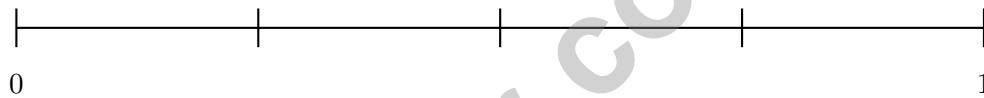
4) Which split could show $6 \times (4 + 3) = (6 \times 4) + (6 \times 3)$?

- A. Two rectangles share a 6-unit side; the other sides are 4 and 3
- B. Two rectangles have no matching side lengths
- C. One rectangle is not split into parts
- D. One rectangle is split into three unrelated parts

5) A T-shaped figure is divided by dashed lines into three rectangles. The given areas are 10 sq units, 6 sq units, and 6 sq units. What is the total area?

- A. 10 sq units
- B. 22 sq units
- C. 16 sq units
- D. 360 sq units

6) A number line from 0 to 1 is split into 4 equal parts. Where would you mark $\frac{3}{4}$?



- A. At 0
- B. At the first tick
- C. At the third tick
- D. At the fourth tick

7) Two students round differently. Maria says 127 rounds to 130 (nearest 10). Josh says 127 rounds to 100 (nearest 100). Are both students correct? Explain.

- A. Both are wrong; the answer is 125
- B. Maria is wrong; Josh is right
- C. Both are correct because they are rounding to different place values
- D. Josh is wrong; Maria is right



1) Which statement is true about the products of even and odd numbers?

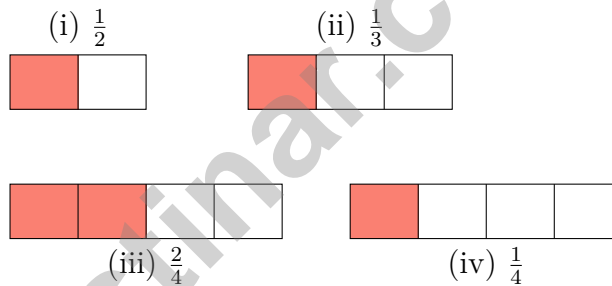
- A. Even \times odd is always odd C. Even \times odd is always even
 B. Even \times even is always odd D. Odd \times odd is always even

2) On a number line from 0 to 1 divided into 4 equal parts, which fraction is closest to $\frac{1}{2}$?



- A. $\frac{1}{4}$ C. $\frac{3}{4}$
 B. $\frac{2}{4}$ D. $\frac{1}{2}$ is not on this line

3) Which visual pair shows equivalent fractions?



- A. (i) and (ii) C. (i) and (iii)
 B. (ii) and (iii) D. (iii) and (iv)

4) A baker needs to multiply 400 g of sugar by 2 to make a bigger batch. How many grams of sugar does he need?

- A. 400 g C. 800 g
 B. 600 g D. 1000 g

5) Which pair of dimensions creates a rectangle with area 8 unit squares?

- A. 2 by 3 C. 2 by 2
 B. 2 by 4 D. 3 by 3

6) Ava skip-counts by thirds from 0 on a number line from 0 to 3 divided into thirds. She says: $0, \frac{1}{3}, \frac{2}{3}, 1, \frac{4}{3}, \dots$. At what point does she say $\frac{7}{3}$?

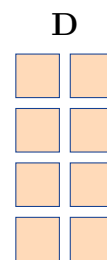
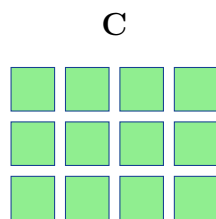
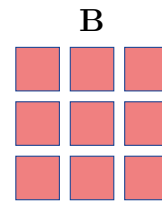
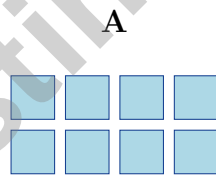
- A. At 1 C. At 3
 B. Between 2 and 3 D. Before $\frac{1}{3}$

7) Complete the fact family:

$$5 \times 7 = 35 \quad 7 \times 5 = 35 \quad 35 \div 5 = \square \quad 35 \div 7 = \square$$

- A. 7 and 5 C. 35 and 35
 B. 5 and 7 D. 10 and 10

8) Which array shows 4×3 ?



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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.D.8)** First multiply the number of packs by crayons per pack: $4 \times 9 = 36$. Then add the crayons she has: $36 + 7 = 43$.
- 2) **Choice B is correct.** **(3.NF.A.2b)** On a 0-to-1 line, $\frac{3}{4}$ is at the 3rd mark (distance 0.25 from 1), while $\frac{1}{4}$ is at the 1st mark (distance 0.75 from 1). So $\frac{3}{4}$ is much closer.
- 3) **Choice B is correct.** **(3.MD.C.7d)** Add the parts: $20 + 15 = 35$ square units.
- 4) **The correct answer is 48.** **(3.OA.D.9)** The row for 6 increases by 6 each time because we multiply 6 by 1, 2, 3, 4, etc. So $6 + 6 = 12$, then $12 + 6 = 18$. The eighth product is 48, so $6 \times 8 = 48$.
- 5) **Choice B is correct.** **(3.MD.C.5b)** Count the rows: 3 rows. Count across each row: 6 tiles. Total: $6 + 6 + 6 = 18$ unit square tiles are needed.
- 6) **Choice A is correct.** **(3.MD.A.1)** From 10 : 25 to 11 : 25 is 60 minutes. The game ends at 11 : 20, which is 5 minutes earlier: $60 - 5 = 55$ minutes. Distractor C (off-by-10), distractor B (confusion with minutes only).
- 7) **Choice A is correct.** **(3.OA.A.2)** $24 \div 6$ divides 24 items into 6 equal groups, which matches sharing 24 cookies among 6 friends.
- 8) **Choice A is correct.** **(3.NF.A.2a)** One of six equal parts is the unit fraction $\frac{1}{6}$.
- 9) **Choice D is correct.** **(3.MD.C.7b)** Area = length \times width = $7 \times 4 = 28$ square feet.
- 10) **Choice D is correct.** **(3.NBT.A.1)** The tens digit is 5. Since $5 \geq 5$, round up: 158 rounds to 200.
- 11) **Choice B is correct.** **(3.MD.A.2)** $3 \text{ L} = 3000 \text{ mL}$. Subtract: $3000 - 1500 = 1500 \text{ mL}$.
- 12) **Choice B is correct.** **(3.MD.B.3)** Ty: $6 \times 5 = 30$. Kim: $8 \times 5 = 40$. Fewer: $40 - 30 = 10$.
- 13) **Choice C is correct.** **(3.NF.A.3b)** The rectangle has 8 equal parts and 4 are shaded, so the shaded fraction written in eighths is $\frac{4}{8}$.
- 14) **The correct answer is 24.** **(3.OA.B.5)** $(2 \times 3) \times 4 = 6 \times 4 = 24$.
- 15) **Choices A, B, and C are correct.** **(3.MD.C.6)** Strategies A, B, and C all use repeated addition (skip-counting) to count all 15 unit squares. D counts only one row, and E adds the sides (which is perimeter, not area).
- 16) **Choice D is correct.** **(3.OA.A.1)** The picture shows 4 columns with 3 symbols in each column. This is 4 groups of 3, so $4 \times 3 = 12$.
- 17) **Choice C is correct.** **(3.NF.A.3c)** $\frac{4}{1} = 4$. Any number over 1 equals that number.
- 18) **Choice C is correct.** **(3.MD.C.5a)** If the shape is covered by 9 unit squares, the total area is 9 square units.
- 19) **Choice C is correct.** **(3.MD.C.7)** Area = $4 \times 7 = 28$ square yards.
- 20) **Choice B is correct.** **(3.MD.C.7c)** Both smaller rectangles share width 5. Heights are 2 and 4, totaling 6. The distributive property gives $5 \times (2 + 4) = 30$.
- 21) **Choice D is correct.** **(3.OA.A.4)** In this fact family, $24 \div 3 = 8$. This is the division equation that matches the multiplication $3 \times 8 = 24$.
- 22) **Choice D is correct.** **(3.OA.C.7)** $5 \times 8 = 40$ is correct. The others: $6 \times 7 = 42$, $9 \times 5 = 45$, $7 \times 6 = 42$.
- 23) **The correct answer is 240.** **(3.NBT.A.3)** $3 \times 8 = 24$, then add one zero to get 240: $3 \times 80 = 240$.
- 24) **Choice B is correct.** **(3.NF.A.3d)** The orange dot is positioned between the $\frac{2}{3}$ mark and 1 on the number line, so it represents a fraction between $\frac{2}{3}$ and 1. This fraction is $\frac{5}{6}$.
- 25) **Choice C is correct.** **(3.MD.B.4)** Add all X's: $1 + 3 + 2 + 4 = 10$ stems total.
- 26) **Choice D is correct.** **(3.NF.A.2)** $\frac{4}{4}$ means all 4 fourths. That is one whole, so the distance from 0 is 1.
- 27) **Choice A is correct.** **(3.MD.C.5)** Shape X has an area of 15 square units, which is larger than Shape Y's 9 square units. More space inside means greater area.
- 28) **Choice B is correct.** **(3.G.A.1)** The rectangle has two sides that are 3 cm (the length) and two sides that are 2 cm (the width). This makes 2 pairs of equal sides.
- 29) **Choice A is correct.** **(3.OA.B.6)** From the fact-family triangle with factors 4 and 9 and product 36, we write two divisions: $36 \div 4 = 9$ and $36 \div 9 = 4$. The factors become quotients.



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◇ You walked all 5 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

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5 Full-Length Practice Tests

Realistic tests to build stamina and familiarity.



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Answer Keys & Explanations

Detailed answers that show steps and clear reasoning.



Review & Master Skills

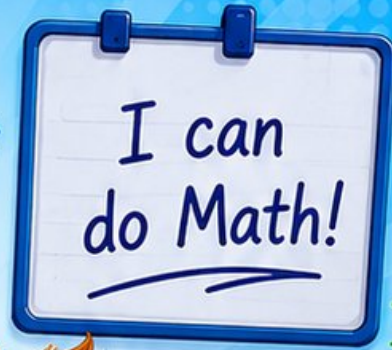
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- ✓ Data & Graphs
- ✓ Word Problems
- ✓ And More!



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$$\begin{array}{r} 7 \times 8 \\ \hline = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ -178 \\ \hline = 274 \end{array}$$



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