

+
★
10

=
Illinois
IAR



GRADE 3

△ **MATH** ▽

÷ **PRACTICE TESTS** ≡

✓ Complete Standards Review

✓ Skill Practice

✓ Word Problems
and Answer Key

2 × 7 + 4



★ ★ ★
**PREPARE
PRACTICE
SUCCEED!**
★ ★ ★



Aligned to
Grade 3 Math
Standards



Build Confidence
and Master
Math Skills



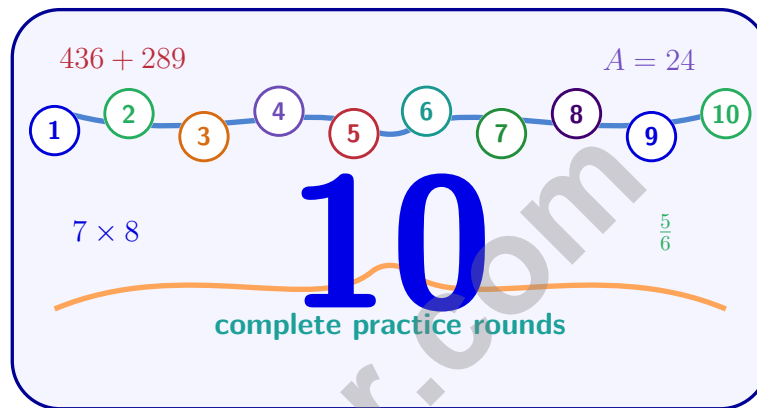
Test-Taking
Practice for
Success



Answer Key
for Easy
Review

10 Illinois IAR Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 practice rounds for IAR, built around prairie roads, skyline views, and strong number sense, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Illinois Math Explorer!

Ten steady rounds on the Prairie State math route

This book gives you ten full Grade 3 practice tests for IAR. Each round uses prairie roads, skyline views, and strong number sense to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Illinois Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Illinois IAR review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Prairie State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Ten tests, 300 questions, and a full IAR review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Illinois book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.

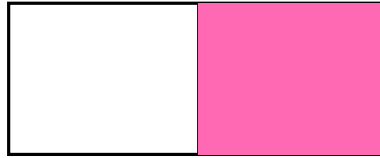


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- 1) A rectangle has 2 equal parts. One part is shaded.



What fraction does the shaded part show?

- A. $\frac{1}{3}$ C. $\frac{1}{2}$
 B. $\frac{2}{1}$ D. $\frac{2}{2}$
- 2) Which fraction equals $\frac{1}{4}$?
- A. $\frac{2}{4}$ C. $\frac{1}{8}$
 B. $\frac{2}{8}$ D. $\frac{3}{8}$
- 3) A number line has unit fractions that are each $\frac{1}{4}$ long. The number line goes from 0 to 1. How many unit fractions fit exactly?
- A. 3 C. 5
 B. 4 D. 6
- 4) Ava's pet kennel has room for 42 dogs. If each kennel room holds 6 dogs, how many kennel rooms does Ava need?
- A. 36 C. 8
 B. 48 D. 7
- 5) A recipe calls for 3 eggs. If Chloe wants to make 8 batches, how many eggs does she need?
- A. 11 eggs C. 30 eggs
 B. 27 eggs D. 24 eggs



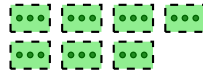
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6) Which picture shows 21 items divided equally into 3 groups?

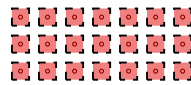
- A. Three groups of five



- B. Seven groups of three



- C. Twenty-one groups of one



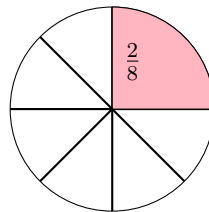
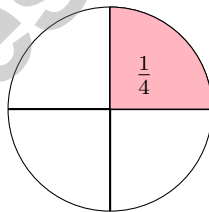
- D. Three groups of seven



7) A rectangle has area 20 square feet. Its length is 5 feet. What is its width?

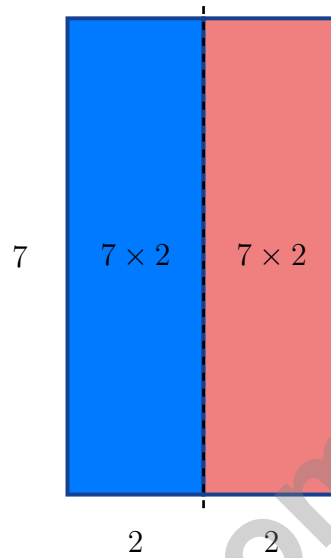
- A. 3 feet C. 5 feet
 B. 4 feet D. 15 feet

8) Look at the pies. Which statement is true?

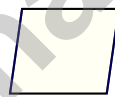


- A. They show the same amount C. The right pie is larger
 B. The left pie is larger D. They are not equal

9) Lily splits 7×4 as $7 \times (2 + 2)$. Which statement describes the area model?



- A. Two parts labeled 7×2 and 7×2
- B. One part labeled $7 + 4$
- C. Two parts labeled 7×3 and 7×1
- D. Four parts labeled $2 + 2 + 2 + 2$



Opposite sides

10)

Parallelogram

In a parallelogram, are the opposite sides equal in length?

- A. No, they are never equal
- B. Yes, opposite sides are equal
- C. Only the top and bottom are equal
- D. Opposite sides are perpendicular

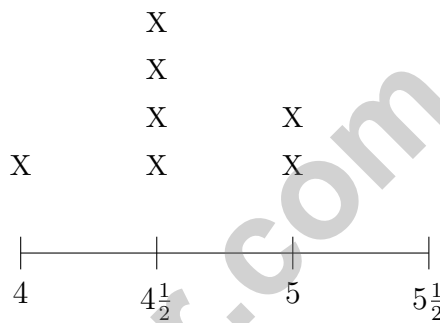


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1) When you round 45 to the nearest 10, why does the ones digit matter more than the hundreds digit?

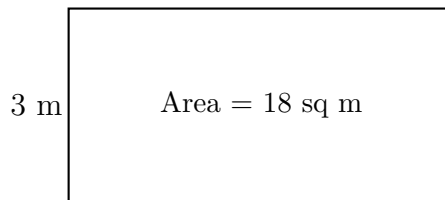
- A. Because we are rounding to the nearest 10, not the nearest 100
- B. Because the ones digit is always bigger
- C. Because 45 is a large number
- D. Because 50 is better than 40

2) Mia recorded the weights of apples in ounces. The line plot shows: 4, 4½, 5, 5½.



Which weight has the least X's?

- A. 4 ounces
- B. 4½ ounces
- C. 5 ounces
- D. 5½ ounces



3)

A rectangular field has an area of 18 square meters and a height of 3 meters. What is the length?

- A. 6 meters
- B. 15 meters
- C. 21 meters
- D. 9 meters



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4) What is $635 - 241$?

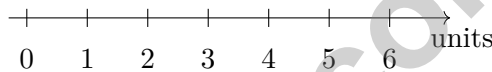
- A. 394 C. 384
 B. 404 D. 464

5) A rectangle is divided into 3 equal parts. If $\frac{2}{3}$ is shaded, how many parts are shaded?



- A. 1 part C. 3 parts
 B. 2 parts D. 0 parts

6)



On a number line, the distance from 0 to 4 is divided into fourths. Which mark shows $\frac{3}{4}$ of the distance from 0 to 4?

- A. 3.5 C. 4
 B. 2 D. 3

7) Which comparison is true?

- A. $\frac{2}{2} < \frac{2}{3}$ C. $\frac{2}{3} > \frac{2}{2}$ ($3 > 2$)
 B. $\frac{2}{2} > \frac{2}{3}$ ($2/2 = \text{whole}$, $2/3 < \text{whole}$) D. $\frac{2}{3} = \frac{2}{2}$

8) A long rectangle has area 60 square units. It is split vertically into two parts. One part is 4×10 . What is the area of the other part if they share the same length?

- A. 40 C. 30
 B. 20 D. 60

1) Which number sentence is false?

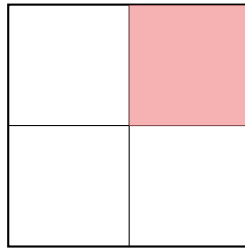
A. $2 \times 9 = 9 \times 2$

C. $8 \times 6 = 7 \times 6 + 1$

B. $(2 \times 3) \times 3 = 2 \times (3 \times 3)$

D. $4 \times (2 + 3) = 4 \times 2 + 4 \times 3$

2) A rectangle is divided into 2 equal parts vertically. Then it is divided into 2 equal parts horizontally making 4 smaller equal parts. What fraction is one small part?



A. $\frac{1}{2}$

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

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

D. $\frac{2}{4}$

3) There are 9 students with 4 crayons each. How many crayons total?

4) Round 682 to the nearest 100.

A. 600

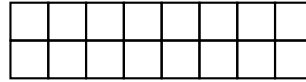
C. 682

B. 680

D. 700



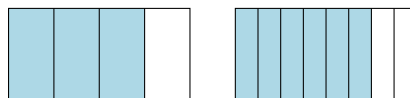
- 5) Mia covers a 2 by 8 rectangle with unit square tiles. Here is the grid:



Count the unit squares. How many are there?

- A. 10 unit squares (the perimeter) C. 8 unit squares
 B. 16 unit squares D. 20 unit squares
- 6) A sports team scored 234 points in the first game and 189 points in the second game. Which statement about the difference is correct?
- A. $234 - 189 = 45$; the team scored 45 more points in the first game C. $189 - 234 = 45$; the team scored 45 more points in the second game
 B. $234 - 189 = 55$; the team scored 55 more points in the first game D. $234 + 189 = 423$; the team scored 423 points in both games
- 7) Eli has $\frac{8}{2}$ sheets of stickers. Each sheet is one whole. How many whole sheets does he have?

- A. 2 C. 8
 B. 4 D. 6
- 8) Look at the two rectangles. Do they show equivalent fractions?



Rectangle 1: $\frac{3}{4}$ Rectangle 2: $\frac{6}{8}$

- A. Yes, they are equivalent C. It is unclear
 B. No, they are not equivalent D. No, Rectangle 1 is larger



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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 C is correct.** **(3.NF.A.1)** The rectangle is divided into 2 equal parts with 1 shaded. The fraction is $\frac{1}{2}$ (one-half).
- 2) **Choice B is correct.** **(3.NF.A.3b)** Multiply numerator and denominator by 2: $\frac{1 \times 2}{4 \times 2} = \frac{2}{8}$.
- 3) **Choice B is correct.** **(3.NF.A.2a)** The denominator 4 tells us exactly 4 parts of size $\frac{1}{4}$ fit from 0 to 1.
- 4) **Choice D is correct.** **(3.OA.A.3)** Divide: $42 \div 6 = 7$ kennel rooms needed.
- 5) **Choice D is correct.** **(3.OA.A.1)** 8 batches with 3 eggs each means 8 groups of 3. So $8 \times 3 = 24$ eggs.
- 6) **Choice D is correct.** **(3.OA.A.2)** $21 \div 3 = 7$. The picture shows 3 equal groups, each with 7 items.
- 7) **Choice B is correct.** **(3.MD.C.7)** Area = length \times width. So $20 = 5 \times$ width. Width = $20 \div 5 = 4$ feet.
- 8) **Choice A is correct.** **(3.NF.A.3)** Both pies show the same shaded region. $\frac{1}{4}$ and $\frac{2}{8}$ are equivalent.
- 9) **Choice A is correct.** **(3.OA.B.5)** The area model shows 7×4 split into two parts: 7×2 and 7×2 . Since $7 \times 2 + 7 \times 2 = 14 + 14 = 28 = 7 \times 4$, this uses the distributive property.
- 10) **Choice B is correct.** **(3.G.A.1)** In a parallelogram, opposite sides are not only parallel, but they are also equal in length.
- 11) **Choice A is correct.** **(3.OA.D.8)** Step 1: Total stickers: $4 \times 9 = 36$ stickers. Step 2: Share equally: $36 \div 6 = 6$ stickers per friend.
- 12) **Choice C is correct.** **(3.MD.A.2)** Multiply: $3 \times 200 = 600$ mL.
- 13) **Choice A is correct.** **(3.MD.C.7d)** Part A: $8 \times 4 = 32$ sq units. Part B: $6 \times 2 = 12$ sq units. Total: $32 + 12 = 44$ sq units.
- 14) **Choice B is correct.** **(3.MD.C.7b)** Area = length \times width = $6 \times 4 = 24$ square meters. Choice A (10) is the sum; C (20) is 4×5 miscomputation; D (12) is 6×2 .
- 15) **Choice C is correct.** **(3.NF.A.3a)** $\frac{2}{4}$ simplifies to $\frac{1}{2}$. They represent the same region: one-half.
- 16) **Choices A and C are correct.** **(3.OA.C.7)** $4 \times 5 = 20$ is right. $6 \times 6 = 36$ not 35. $9 \times 7 = 63$ is right. $5 \times 7 = 35$ not 36. $3 \times 9 = 27$ not 28.
- 17) **Choice B is correct.** **(3.MD.C.6)** Area = $4 \times 7 = 28$ square inches.
- 18) **Choice C is correct.** **(3.NF.A.3c)** 5 wholes = $\frac{5}{1}$. Any whole number with denominator 1 equals that number. (A) equals 1, (B) is a unit fraction, (D) is more than 2 but not 5 wholes.
- 19) **Choice C is correct.** **(3.MD.C.5)** Both rectangles have area $4 \times 5 = 20$ square units. Multiplication is commutative: $4 \times 5 = 5 \times 4$. Rotating a rectangle doesn't change its area.
- 20) **The correct answer is 700.** **(3.NBT.A.1)** The tens digit is 2. Since $2 < 5$, round down: 728 rounds to 700.
- 21) **Choice D is correct.** **(3.OA.A.4)** Divide: $32 \div 4 = 8$ stickers per friend.
- 22) **The correct answer is $\frac{3}{6}$.** **(3.NF.A.2)** The third tick out of 6 equal parts is $\frac{3}{6}$.
- 23) **Choice D is correct.** **(3.OA.B.6)** The missing number is the product: $6 \times 7 = 42$. This fact family contains $6 \times 7 = 42$, $7 \times 6 = 42$, $42 \div 6 = 7$, and $42 \div 7 = 6$.
- 24) **Choice A is correct.** **(3.MD.B.3)** Soccer: $3 \times 5 = 15$. Basketball: $4 \times 5 = 20$. Tag: $2 \times 5 = 10$. Total: $15 + 20 + 10 = 45$.
- 25) **Choice B is correct.** **(3.MD.C.5a)** If area is 1 square meter and the shape is a unit square, the side length must be 1 meter.
- 26) **Choice C is correct.** **(3.MD.C.7a)** Count rows and columns: $6 \times 4 = 24$ square units. Bridge from visual tiling to multiplication.
- 27) **Choice A is correct.** **(3.NBT.A.2)** Subtract: $400 - 267 = 133$. Ones: $0 - 7$ requires regrouping, so $10 - 7 = 3$. Tens: $9 - 6 = 3$ (after regrouping). Hundreds: $3 - 2 = 1$ (after regrouping).
- 28) **Choice A is correct.** **(3.MD.C.7c)** Both rectangles must have the same width 8, with lengths 3 and 4 that sum to 7.
- 29) **The correct answer is 40 tiles.** **(3.MD.C.5b)** Count the rows: 5 rows of tiles. Count across: 8 tiles per row. Total: $8 + 8 + 8 + 8 + 8 = 40$ square foot tiles cover the floor.
- 30) **Choice D is correct.** **(3.MD.B.4)** The largest count is 4 X's at $1\frac{1}{2}$ ounces. Some marks have 0 X's. The difference is $4 - 0 = 4$.



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Notes From Your Math Builder

Hi, Math Builder!

◇ Through 10 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

★ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ★

Builder's Tools

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

Builder tip: on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

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

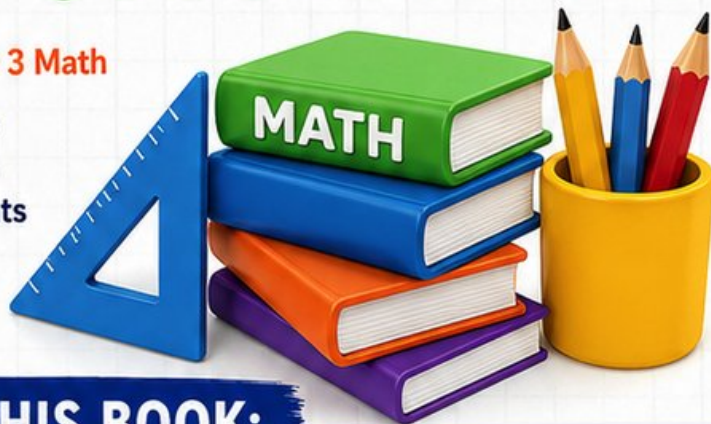
Jay Daie

Your Math Builder

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