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# 10 Indiana I LEARN



GRADE 3

MATH

PRACTICE TESTS

- ✓ Complete Standards Review
- ✓ Skill Practice
- ✓ Word Problems and Answer Key

$2 \times 7 + 4$



★ ★ ★  
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 Indiana ILEARN Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Ten complete 30-question Grade 3 practice rounds for ILEARN, built around covered bridges, race-day focus, and fast fact fluency, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Indiana Math Explorer!

Ten steady rounds on the Hoosier State math route

This book gives you ten full Grade 3 practice tests for ILEARN. Each round uses covered bridges, race-day focus, and fast fact fluency to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## Indiana 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 Indiana ILEARN 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 Hoosier 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 ILEARN 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 Indiana 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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& answers

# Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	27
★ Practice Test 3	_____	39
★ Practice Test 4	_____	51
★ Practice Test 5	_____	64
★ Practice Test 6	_____	76
★ Practice Test 7	_____	88
★ Practice Test 8	_____	100
★ Practice Test 9	_____	112
★ Practice Test 10	_____	125
<b>Practice Test Answer Keys</b>	_____	<b>136</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>142</b>

1) What is  $63 \div 9$ ?

A. 6

C. 8

B. 9

D. 7

2) A rectangle is covered by unit squares in a  $6 \times 2$  arrangement. What is the area?

A. 8 square units

C. 12 square units

B. 10 square units

D. 16 square units

3) Which picture shows 12 items divided equally into 4 groups?

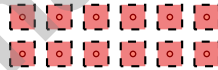
A. Four groups of two



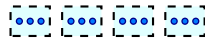
B. Three groups of four

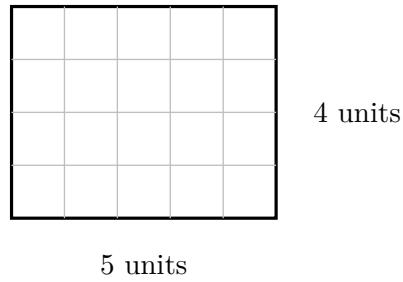


C. Twelve groups of one



D. Four groups of three

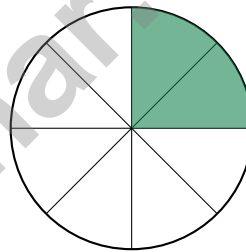




4)

Count the unit squares. What is the area of the rectangle above?

5) A pizza is cut into 8 equal slices. Noah eats 2 slices. What fraction of the pizza does Noah eat?



A.  $\frac{1}{8}$   
 B.  $\frac{2}{8}$

C.  $\frac{3}{8}$   
 D.  $\frac{6}{8}$

6) A cup holds 200 mL. About how many cups would fill a 1000 mL pitcher? ESTIMATE.



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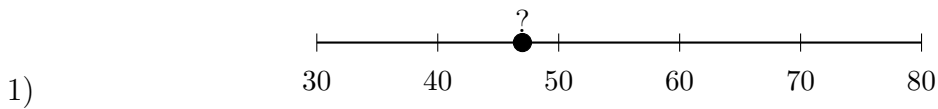
7) Look at the fact family:

$3 \times 8 = 24$	$8 \times 3 = 24$
$24 \div 3 = 8$	$24 \div 8 = 3$

Which equation is part of this fact family?

- A.  $24 \div 8 = 4$                        C.  $20 \div 3 = 8$   
 B.  $24 \div 4 = 8$                        D.  $24 \div 3 = 8$
- 8) A piece of cloth is 7 inches by 5 inches. What is its area?
- A. 12 sq in                               C. 30 sq in  
 B. 24 sq in                               D. 35 sq in
- 9) A rectangle has a length of 9 cm and a width of 4 cm. What is the area of the rectangle?
- A.  $13 \text{ cm}^2$                                C.  $45 \text{ cm}^2$   
 B.  $26 \text{ cm}^2$                                D.  $36 \text{ cm}^2$
- 10) Eli cut a sandwich into 2 equal pieces and ate 1 piece. Noah cut his sandwich into 4 equal pieces and ate 2 pieces. Did they eat the same amount?
- A. Yes, they ate the same amount       C. No, Noah ate more  
 B. No, Eli ate more                       D. Cannot be determined





Look at the number line. The number shown is between 40 and 50. To which number should it round?

- A. 40                       C. 50  
 B. 45                       D. 60

- 2) On a number line from 0 to 2 divided into fourths, how many fourths are there in total?

- 3) Sam is paving a patio with unit square stepping stones. The patio is 4 units by 7 units. How many stones does he need?

- A. 22 stones                       C. 56 stones  
 B. 11 stones                       D. 28 stones

- 4) Talia has 45 stickers. She wants to arrange them in 9 equal rows. How many stickers will be in each row?

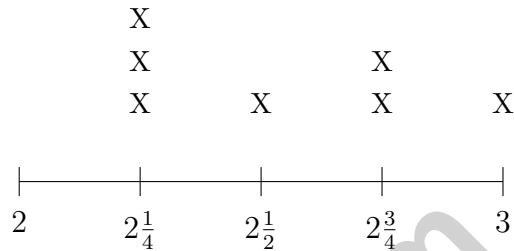
- A. 4 stickers                       C. 6 stickers  
 B. 7 stickers                       D. 5 stickers



5) Which sentence is true?

- A. A  $5 \times 2$  rectangle has area 14       C. A  $4 \times 2$  rectangle has area 8  
 B. A  $3 \times 3$  rectangle has area 6       D. A  $6 \times 6$  rectangle has area 12

6) A line plot displays cookie weights in ounces:  $2, 2\frac{1}{4}, 2\frac{1}{2}, 2\frac{3}{4}, 3$ .



What weight has exactly 2 cookies?

- A.  $2\frac{1}{4}$  ounces       C.  $2\frac{3}{4}$  ounces  
 B.  $2\frac{1}{2}$  ounces       D. 3 ounces
- 7) Look at this addition:  $265 + 218 = 475$ . Is this correct or incorrect?

- A. Correct       C. Incorrect; the answer should be 473  
 B. Incorrect; the answer should be 485       D. Incorrect; the answer should be 483

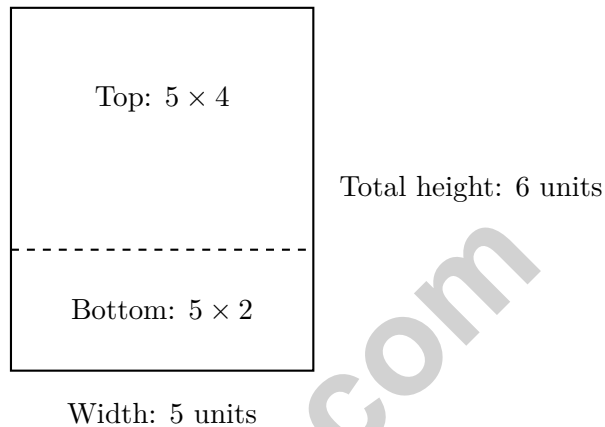


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1) Mia breaks apart  $8 \times 6$  into smaller pieces:  $8 \times (3 + 3)$ . What does this show?

- A. Commutative property       C. Identity property  
 B. Associative property       D. Distributive property

2) A rectangle is split by a horizontal line into two parts:



Which equation uses the distributive property to find the total area?

- A.  $5 \times 2 = 10$  only       C.  $2 + 4 + 5 = 11$   
 B.  $5 \times (2 + 4) = (5 \times 2) + (5 \times 4) = 10 + 20 = 30$        D.  $6 \times 5 = 30$
- 3) There are 5 rows of chairs and 6 chairs in each row. How many chairs are there in total?
- A. 25 chairs       C. 35 chairs  
 B. 40 chairs       D. 30 chairs

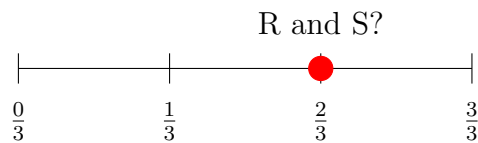


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4)  $? - 187 = 256$ . What is the missing minuend?

- A. 433                       C. 444  
 B. 413                       D. 443

5) Two identical number lines go from 0 to 1. Point R is at  $\frac{4}{6}$ . Point S is at  $\frac{2}{3}$ . Are they at the same location?



- A. No, R is left of S.                       C. Yes, at the same spot.  
 B. No, S is left of R.                       D. The lines are different.
- 6) A number line from 0 to 1 is divided into 6 equal parts. What is the distance between 0 and the first tick?

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

7) Ava earns \$8 per hour. She works for some number of hours and earns \$56. Which division equation helps find how many hours she worked?

- A.  $56 \div 8 = \square$                                C.  $56 + 8 = \square$   
 B.  $8 \times \square = 56$                                D.  $56 - 8 = \square$

8) Find  $30 \div 5$ .



## 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.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(3.CA.7)**  $63 \div 9 = \square$  means  $\square \times 9 = 63$ . Since  $7 \times 9 = 63$ , the answer is 7.
- 2) **Choice C is correct.** **(3.M.6)** A  $6 \times 2$  arrangement of unit squares has area  $6 \times 2 = 12$  square units.
- 3) **Choice D is correct.** **(3.CA.3)**  $12 \div 4 = 3$ . The picture shows 4 equal groups, each with 3 items.
- 4) **The correct answer is 20 square units.** **(3.CA.5)** The grid shows 5 columns and 4 rows. Area =  $5 \times 4 = 20$  square units. You can also add by rows:  $5 + 5 + 5 + 5 = 20$  (four rows of five).
- 5) **Choice B is correct.** **(3.G.3)** Two slices out of eight equal slices is  $\frac{2}{8}$ .
- 6) **The correct answer is about 5 cups.** **(3.M.1)** Divide:  $1000 \div 200 = 5$  cups. Estimation practice aligned to 3.MD.A.2.
- 7) **Choice D is correct.** **(3.CA.7)** In this fact family,  $24 \div 3 = 8$ . This is the division equation that matches the multiplication  $3 \times 8 = 24$ .
- 8) **Choice D is correct.** **(3.M.5)** Area =  $7 \times 5 = 35$  square inches.
- 9) **Choice D is correct.** **(3.CA.7)** Area = length  $\times$  width =  $9 \times 4 = 36$  cm<sup>2</sup>.
- 10) **Choice A is correct.** **(3.NS.4)** Eli ate  $\frac{1}{2}$  and Noah ate  $\frac{2}{4}$ . These are equivalent:  $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$ .
- 11) **Choice C is correct.** **(3.M.5)**  $5 \times 6 = 30$  square units.
- 12) **Choice C is correct.** **(3.G.2)** Step 1: After eating:  $18 - 7 = 11$  apples. Step 2: Add new:  $11 + 4 = 15$  apples. (Choice A is step 1 only.)
- 13) **Choices C and D are correct.** **(3.CA.8)** Pattern C (multiples of 2): 2, 4, 6, 8, 10 are all even because we're multiplying 2 by 1, 2, 3, 4, 5. Pattern D (multiples of 4): 4, 8, 12, 16, 20 are all even because 4 is even, and even times any number is even. Pattern A is all odd (not even). Pattern B has 5, 15, 25 (odd) and 10, 20 (even)—mixed. Pattern E has 3, 9, 15 (odd) and 6, 12 (even)—mixed.
- 14) **Choice C is correct.** **(3.NS.5)**  $\frac{3}{6}$  and  $\frac{1}{2}$  both equal half of a whole.
- 15) **Choice A is correct.** **(3.NS.5)** Same numerator: eighths are smaller pieces than sixths. Two eighths is less than two sixths.
- 16) **Choice D is correct.** **(3.CA.3)**  $8 \times 3$  means 8 groups of 3, so  $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 24$ . Both equal 24.
- 17) **Choice C is correct.** **(3.NS.4)**  $\frac{2}{4}$  simplifies to  $\frac{1}{2}$ . They represent the same region: one-half.
- 18) **Choice C is correct.** **(3.3(M))** Area is the space inside (square units). Perimeter is the distance around the edge (linear units). They measure different attributes.
- 19) **Choice B is correct.** **(3.NS.2)** The rectangle has 3 equal parts, and 1 part is shaded. The unit fraction is  $\frac{1}{3}$  (one-third).
- 20) **Choice B is correct.** **(3.NS.3)** Sum at 3 and  $3\frac{1}{4}$  is 5. If 2 are at 3 inches, then  $5 - 2 = 3$  are at  $3\frac{1}{4}$  inches.
- 21) **Choice B is correct.** **(3.M.5)** Area = width  $\times$  height =  $7 \times 8 = 56$  square inches.
- 22) **Choice B is correct.** **(3.DA.1)** Red: 4 stars  $\times 2 = 8$ . Blue: 2 stars  $\times 2 = 4$ .
- 23) **Choice A is correct.** **(3.M.5)** Both rectangles share the dimension 9. When stacked or side by side, they show  $9 \times (2 + 5) = 9 \times 7 = 63$ .
- 24) **The correct answer is 26 centimeters.** **(3.M.6)**  $2(9) + 2(4) = 18 + 8 = 26$  centimeters.
- 25) **Choice C is correct.** **(3.CA.1)**  $6 \times 50 = 300$  is the greatest because  $300 > 280$ ,  $300 > 240$ , and  $300 > 180$ .
- 26) **Choice C is correct.** **(3.CA.5)**  $9 \times 4 = 36$  is correct. The others:  $7 \times 6 = 42$ ,  $8 \times 6 = 48$ ,  $5 \times 9 = 45$ .
- 27) **Choice A is correct.** **(3.CA.1)** Add:  $187 + 246 = 433$ . Ones:  $7 + 6 = 13$  (write 3, carry 1). Tens:  $8 + 4 + 1 = 13$  (write 3, carry 1). Hundreds:  $1 + 2 + 1 = 4$ .
- 28) **Choice D is correct.** **(3.NS.6)** The point is at position 1 on the line from 0 to 10, representing a number like 8–14 closer to 10.
- 29) **Choice D is correct.** **(3.CA.5)** The distributive property multiplies 2 by each addend:  $2 \times 6 + 2 \times 4 = 12 + 8 = 20$ .
- 30) **Choice C is correct.** **(3.G.1)** 3 columns and 4 rows:  $3 \times 4 = 12$  unit squares.



Notes From the Math Gardener

## Hi, Math Gardener!

◇ Look at how much you grew! 10 tests is like 10 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

### Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

**Gardener tip:** keep watering your math garden long after the test. Every habit you built will grow with you for years!

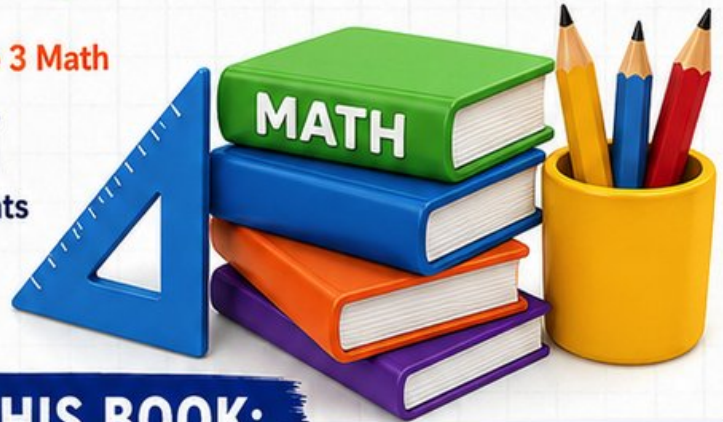
If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Gardener

# PRACTICE TODAY. SUCCEED TOMORROW!

Give your child the advantage they need in **Grade 3 Math** with 10 full-length practice tests that build skills, boost confidence, and improve results. Designed to mirror real test formats, this book helps students master essential math concepts and feel ready for any challenge.



## INSIDE THIS BOOK:



### 10 Full-Length Practice Tests

Realistic tests that simulate the look and feel of actual Grade 3 math assessments.



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