

7

Indiana

ILEARN

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

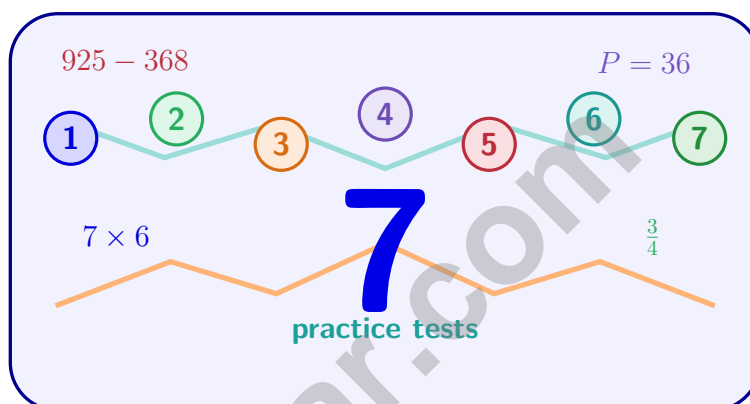


$4 \times 6 = 24$



7 Indiana ILEARN 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.

Jay Daie and Reza Nazari



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

Indiana has corn rows, race tracks, river towns, school makerspaces, and steady practice routines, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and use pace, accuracy, and a clean finish.

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 Indiana students, each trail moves through corn rows, race tracks, river towns, school makerspaces, and steady practice 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 Indiana 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 Indiana ILEARN path.



Scan me!
For more practice
& answers

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- 1) Mia colors part of a circle. She colors $\frac{3}{6}$ red and $\frac{1}{2}$ blue on two identical circles. Which statement is true?
- A. She colored more blue. C. She colored the same amount.
 B. Blue and red use different shapes. D. She colored more red.
- 2) Sam splits a 7×5 rectangle by a horizontal line. One part is 7×2 . Which shows the distributive property?
- A. $7 \times (2 + 3) = (7 \times 2) + (7 \times 3) = 14 + 21 = 35$ C. $2 + 3 = 5$
 B. $7 \times 5 = 35$ D. $7 + 5 = 12$
- 3) A rectangular mirror is 6 inches wide and 9 inches tall. How much area does the mirror cover?
- A. 30 sq in C. 54 sq in
 B. 108 sq in D. 15 sq in
- 4) Ordering fractions: which list goes from smallest to largest?
- A. $\frac{1}{8}, \frac{1}{4}, \frac{1}{2}$ C. $\frac{1}{4}, \frac{1}{8}, \frac{1}{2}$
 B. $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$ D. $\frac{1}{8}, \frac{1}{2}, \frac{1}{4}$
- 5) A library has 80 books in a bin. They remove 20 damaged books. The rest are placed on 4 shelves equally. How many books are on each shelf?
- A. 12 C. 18
 B. 20 D. 15

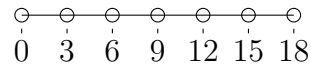


- 6) A number line from 0 to 1 is divided so that the unit fraction at the first tick is $\frac{1}{3}$. How long is the second tick from 0?

A. $\frac{1}{3}$
 B. $\frac{2}{3}$

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

7)



This number line shows skip counting. Which multiplication sentence matches?

A. $3 \times 9 = 27$

C. $5 \times 3 = 15$

B. $3 \times 5 = 15$

D. $6 \times 3 = 18$

8)



This is a 6×1 grid. How many unit squares are shown?

A. 5 unit squares

C. 7 unit squares

B. 6 unit squares

D. 8 unit squares

- 9) 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?



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- 10) 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
- 11) Lily buys 3 packages of toy cars. Each package has 40 toy cars. How many toy cars does Lily buy?
- A. 34 C. 120
 B. 43 D. 1200
- 12) 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
- 13) Select the **TWO** correct statements about time intervals.
- A. An interval from 9 : 20 AM to 9 : 50 AM is 30 minutes long.
 B. An interval from 1 : 15 PM to 2 : 30 PM is 1 hour and 15 minutes long.
 C. An interval from 6 : 00 AM to 7 : 00 AM is 60 minutes long.
 D. An interval from 11 : 45 AM to 12 : 30 PM is 45 minutes long.
 E. An interval from 4 : 00 PM to 5 : 05 PM is 1 hour and 5 minutes long.
- 14) Below is a grouped representation showing 3 groups of items with 5 items in each group drawn as stars.

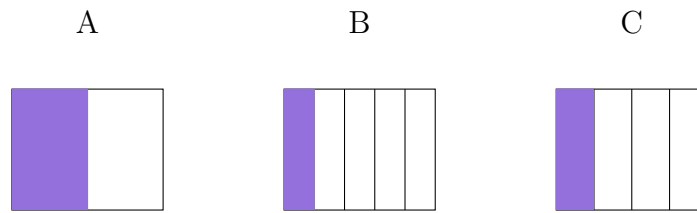


How many stars are there in total?

- A. 8 C. 10
 B. 12 D. 15



1) Which picture shows $\frac{1}{4}$ shaded?



A. Picture A

C. Picture C

B. Picture B

D. None of these

2) Find the missing number: $? + 256 = 781$. What is the missing addend?

3) What is 367 rounded to the nearest 100?

A. 300

C. 400

B. 370

D. 360

4) Noah has a backpack weighing 3 kilograms and a book weighing 500 grams. What is the total mass in grams?

A. 503 g

C. 3000 g

B. 3500 g

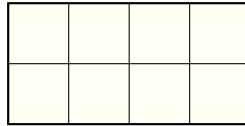
D. 500 g



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5) How many odd numbers are in the pattern 4, 8, 12, 16, 20, 24, 28? Explain why.

6) How many unit squares ($1\text{ cm} \times 1\text{ cm}$) are needed to cover a 4 cm by 2 cm rectangle?



4 cm

- A. 6 unit squares C. 10 unit squares
 B. 8 unit squares D. 12 unit squares
- 7) What number makes the equation true?

$$36 \div \square = 9$$

- A. 4 C. 6
 B. 5 D. 3
- 8) A store has boxes of toy cars. Each box holds 9 cars. How many cars are in 6 boxes?
- A. 48 cars C. 56 cars
 B. 60 cars D. 54 cars



1) Which is NOT equal to a whole number?

- A. $\frac{20}{4}$
 B. $\frac{7}{1}$

- C. $\frac{3}{2}$
 D. $\frac{8}{8}$

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

- A. 2 by 3
 B. 2 by 4

- C. 2 by 2
 D. 3 by 3

3) Write a fraction equivalent to $\frac{1}{2}$.

4) A door is 9 decimeters tall and 4 decimeters wide. What is the area of the door?

- A. 13 sq dm
 B. 26 sq dm

- C. 36 sq dm
 D. 40 sq dm

5) Find 6×4 .



6) Noah is decorating a wall with square tiles. The wall space is 6 units long and 6 units tall. How many square tiles does he need?

A. 12 tiles

C. 36 tiles

B. 24 tiles

D. 48 tiles

7) A class starts at 9 : 15 AM and ends at 10 : 05 AM. How long is the class?

A. 50 minutes

C. 60 minutes

B. 55 minutes

D. 45 minutes

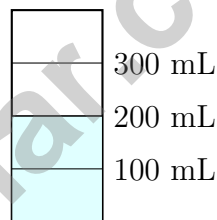
8) Which shape has an area of 20 square units?

A. A 2×8 rectangle

C. A 3×6 rectangle

B. A 4×5 rectangle

D. A 2×9 rectangle



Cup

9)

The cup shows water at the 200 mL mark. What is the volume of water?

A. 100 mL

C. 300 mL

B. 200 mL

D. 400 mL



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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

- Choice C is correct.** **(3.NS.4)** $\frac{3}{6} = \frac{1}{2}$. Both represent one-half of the circle.
- Choice A is correct.** **(3.M.5)** The distributive property breaks 5 into 2 + 3 and multiplies 7 by each part.
- Choice C is correct.** **(3.M.5)** Area = width \times height = $6 \times 9 = 54$ square inches.
- Choice A is correct.** **(3.NS.5)** All have numerator 1. Larger denominators mean smaller pieces. So eighths < fourths < halves.
- Choice D is correct.** **(3.G.2)** Step 1: Remove damaged: $80 - 20 = 60$ books. Step 2: Divide by shelves: $60 \div 4 = 15$ books per shelf.
- Choice B is correct.** **(3.NS.3)** The second tick is two of the three equal parts, which is $\frac{2}{3}$.
- Choice D is correct.** **(3.CA.3)** Skip counting by 3 six times gives 0, 3, 6, 9, 12, 15, 18. This represents 6 groups of 3, so $6 \times 3 = 18$.
- Choice B is correct.** **(3.M.6)** A 6×1 grid contains exactly 6 unit squares arranged in a row.
- The correct answer is 30 apples.** **(3.DA.1)** Basket A: $2 \times 5 = 10$ apples. Basket B: $4 \times 5 = 20$ apples. Total: $10 + 20 = 30$ apples.
- Choice C is correct.** **(3.CA.8)** An even number times any other whole number is always even, because the result is a multiple of 2.
- Choice C is correct.** **(3.CA.1)** 3 packages of 40 cars = $3 \times 40 = 120$ cars. Multiply $3 \times 4 = 12$, then add one zero.
- Choice C is correct.** **(3.M.1)** Multiply: $400 \times 2 = 800$ g.
- Choices A and B are correct.** **(3.M.3)** A: $9:20$ to $9:50 = 30$ min. B: $1:15$ to $2:30 = 1$ hr 15 min. C: $6:00$ to $7:00 = 60$ min (true, but not selected). D: $11:45$ to $12:30 = 45$ min (true, but not selected). E: $4:00$ to $5:05 = 1$ hr 5 min (true, but not selected). Correct answers require careful minute counting across hour boundary.
- Choice D is correct.** **(3.CA.7)** Multiply: 3 groups \times 5 stars per group = 15 stars.
- Choice C is correct.** **(3.NS.3)** $\frac{1}{8} \neq \frac{2}{4}$ because $\frac{1}{8}$ is much smaller. $\frac{2}{4} = \frac{1}{2}$, which is much farther from 0.
- Choice D is correct.** **(3.CA.3)** If $18 \div ? = 3$, then $? = 6$ because $6 \times 3 = 18$. Check: $18 \div 6 = 3$ is correct.
- Choice D is correct.** **(3.NS.6)** The point is at position 7 on the line from 0 to 10, which is past the midpoint of 5. It represents a number 450–499, closer to 500.
- Choice D is correct.** **(3.CA.7)** The total number of stickers is unknown. Since the stickers are shared equally among 3 friends and each friend gets 6, the equation is $\square \div 3 = 6$.
- Choice A is correct.** **(3.NS.3)** At 2.5 on fourths: $\frac{10}{4}$. At 3.5 on fourths: $\frac{14}{4}$.
- Choice B is correct.** **(3.NS.1)** 14 sevenths divided by 7 sevenths per whole = $14 \div 7 = 2$ wholes.
- Choice B is correct.** **(3.G.3)** Top: $6 \times 2 = 12$ sq units. Bottom: $5 \times 3 = 15$ sq units. Total: $12 + 15 = 27$ sq units.
- The correct answer is 4 units.** **(3.CA.5)** Area = length \times width. Since $24 = 6 \times w$, the missing width is 4 units.
- Choice D is correct.** **(3.CA.5)** Shelf 1: $3 \times 4 = 12$. Shelf 2: $4 \times 3 = 12$. By the commutative property, both equal 12.
- The correct answer is $\frac{6}{8}$.** **(3.NS.4)** Multiply the numerator and denominator by 2: $\frac{3 \times 2}{4 \times 2} = \frac{6}{8}$.
- Choice A is correct.** **(3.CA.1)** Reading the chart: 3 hundreds is 300, 5 tens is 50, 4 ones is 4. Total: $300 + 50 + 4 = 354$.
- Choice B is correct.** **(3.G.1)** Counting the 8 unit squares in the grid gives an area of 8 square units.
- Choice C is correct.** **(3.3(M))** Rectangle: $9 \times 1 = 9$ square inches. Square: $3 \times 3 = 9$ square inches. Shape doesn't matter; area is what counts.
- Choice C is correct.** **(3.G.1)** A quadrilateral with two pairs of parallel sides is called a parallelogram. A trapezoid has only one pair of parallel sides.
- Choice D is correct.** **(3.CA.7)** A bar model dividing a total into equal parts shows division. 30 split into 5 equal parts means each part is $30 \div 5 = 6$.
- Choice C is correct.** **(3.NS.3)** Add all X's: $2 + 3 + 2 + 1 = 8$ pencils total.



Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 7 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

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



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Math
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