

9

Indiana ILEARN

GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY



10

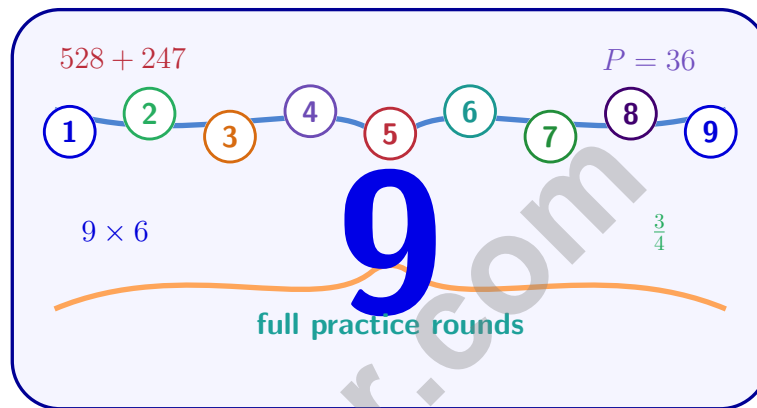


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FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 Indiana ILEARN Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Indiana, Start Your Nine-Round Math Map

A brave Grade 3 journey from first try to confident finish

This book gives you nine chances to practice like a thoughtful Indiana ILEARN test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Indiana has corn rows, race tracks, river towns, school makerspaces, and steady practice routines, where careful steps matter. Strong math follows that same idea: model what the question asks, choose a useful tool, show the work, and reason before moving on.

Your Indiana Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear Indiana review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In Indiana, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with ILEARN support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A Indiana standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.



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& answers

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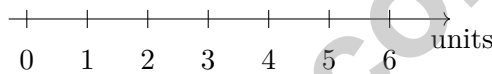
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1) A teacher says: “If a number rounds to 500 when rounded to the nearest 100, it must be at least 450. Is the teacher correct? Why or why not?”

- A. Yes, the teacher is correct
- B. No, numbers from 450 to 549 round to 500
- C. No, numbers as low as 400 can round to 500
- D. No, the rule only works for even numbers

2) A park is shaped like a rectangle. It is 10 feet long and 8 feet wide. How many square feet is the park?

- A. 18 square feet
- B. 36 square feet
- C. 80 square feet
- D. 60 square feet

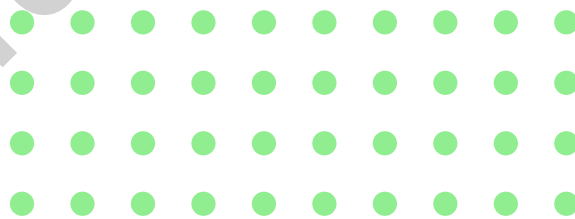


3)

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

4) There are 4 rows of apples. Each row has 10 apples. How many apples are there?



$$4 \times 10 = ?$$

- A. 14
- B. 401
- C. 410
- D. 40

- 5) Mia colored $\frac{2}{3}$ of a circle. Write an equivalent fraction that uses 6 as the denominator.

Two Fountains

Fountain A



8000 mL

Fountain B



6000 mL

6)

A park has two water fountains. Fountain A holds 8000 mL and Fountain B holds 6000 mL. Which fountain holds less water?

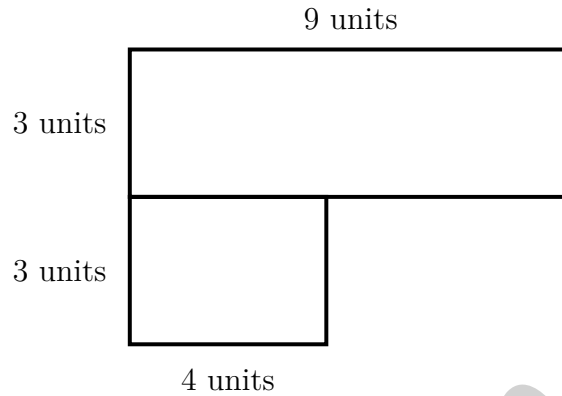
- A. Fountain A C. Both hold the same
 B. Fountain B D. Cannot determine
- 7) Which three fractions are all equal to 3 wholes?

- A. $\frac{4}{1}, \frac{8}{2}, \frac{12}{3}$ C. $\frac{3}{1}, \frac{6}{2}, \frac{9}{3}$
 B. $\frac{2}{1}, \frac{4}{2}, \frac{6}{3}$ D. $\frac{5}{1}, \frac{10}{2}, \frac{15}{3}$



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- 8) An L-shaped parking lot is shown. Part 1 is 9 units by 3 units. Part 2 is 4 units by 3 units. What is the total area?



- A. 39 sq units C. 12 sq units
 B. 27 sq units D. 108 sq units
- 9) Look at the picture. The rectangle is divided into equal parts, and some parts are shaded.



Which fraction is shaded?

- A. $\frac{1}{4}$ C. $\frac{3}{4}$
 B. $\frac{4}{1}$ D. $\frac{2}{4}$

1) A crowd of 523 people watched a game. Round to the nearest 100 to estimate the crowd size.

A. 500

C. 523

B. 520

D. 600

2)

Hundreds	Tens	Ones	Total	?
----------	------	------	-------	---

Lily has 3 hundreds, 2 tens, and 6 ones. Her friend gives her 1 hundred, 4 tens, and 7 ones. What is the total?

A. 473

C. 513

B. 503

D. 523

3) A picture graph shows colored beads. Red: 5 symbols (scale: 4). Blue: 6 symbols (scale: 4). Green: 4 symbols (scale: 4). What is the total number of beads?

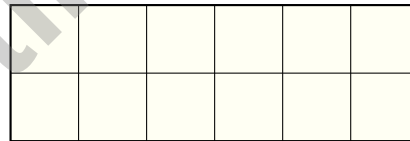
A. 15

C. 60

B. 48

D. 64

4)

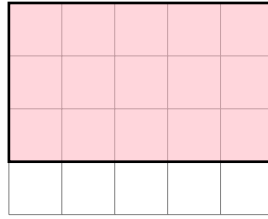


How many unit squares are in this rectangle?



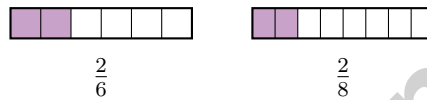
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5) Count the square units in the shaded grid.



- A. 15 square units
- B. 10 square units
- C. 20 square units
- D. 12 square units

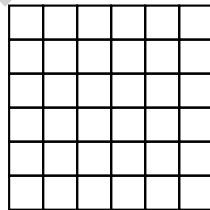
6)



Which is true?

- A. $\frac{2}{6} < \frac{2}{8}$
- B. $\frac{2}{6} > \frac{2}{8}$
- C. $\frac{2}{6} = \frac{2}{8}$
- D. $\frac{2}{8} > \frac{2}{6}$

7) Maya is laying square tiles on her kitchen floor. The floor is shaped like a large square with 6 tiles along one edge. Here is the layout:



How many square tiles cover the entire floor?

- A. 12 tiles
- B. 24 tiles
- C. 36 tiles
- D. 48 tiles

4) Fill in the missing number in the multiplication table:

×	2	3	4
5	10	15	_____

What is 5×4 ? Describe the pattern.

5) Which symbol makes this true? $\frac{4}{4}$ _____ $\frac{4}{2}$

A. <

C. =

B. >

D. \neq

6) Which equation is in the same fact family as $6 \times 7 = 42$?

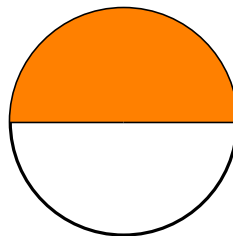
A. $42 \div 6 = 7$

C. $7 \times 6 = 41$

B. $42 \div 5 = 8$

D. $42 \div 7 = 7$

7) Look at the circle divided into 2 equal parts. One part is shaded.



What is the unit fraction?

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

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

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

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



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& answers

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 A is correct.** **(3.NS.6)** Numbers from 450 to 549 round to 500 when rounded to the nearest 100. So yes, any number that rounds to 500 must be at least 450.
- Choice C is correct.** **(3.3(M))** Multiply length by width: $10 \times 8 = 80$ square feet.
- Choice D is correct.** **(3.NS.3)** $\frac{3}{4}$ of the distance from 0 to 4 means $\frac{3}{4} \times 4 = 3$. This lands at the 3 mark.
- Choice D is correct.** **(3.CA.1)** The array shows 4 rows with 10 apples each: $4 \times 10 = 40$ apples.
- The correct answer is $\frac{4}{6}$.** **(3.NS.4)** Multiply the numerator and denominator by 2: $\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$.
- Choice B is correct.** **(3.M.1)** 8000 mL is more than 6000 mL. So Fountain B holds less.
- Choice C is correct.** **(3.NS.1)** $\frac{3}{1} = 3$ (three wholes). $\frac{6}{2} = 6 \div 2 = 3$ wholes. $\frac{9}{3} = 9 \div 3 = 3$ wholes. All three equal 3.
- Choice A is correct.** **(3.G.3)** Part 1: $9 \times 3 = 27$ sq units. Part 2: $4 \times 3 = 12$ sq units. Total: $27 + 12 = 39$ sq units.
- Choice A is correct.** **(3.NS.2)** The rectangle has 4 equal parts, and 1 is shaded, so the fraction is $\frac{1}{4}$ (one-fourth).
- Choice D is correct.** **(3.M.5)** $9 \times 4 = 36$ unit squares.
- Choice D is correct.** **(3.CA.7)** Finding the missing factor: $6 \times 8 = 48$. This is the same as asking $48 \div 8 = \square$. We think: what times 8 makes 48? The answer is 6 because $6 \times 8 = 48$.
- Choice B is correct.** **(3.M.6)** A unit square is defined as a square with side length exactly 1 unit, so all four sides are equal (1 unit each) and all four corners are right angles.
- Choice A is correct.** **(3.NS.5)** Eli ate the whole bar because $\frac{3}{3} = 1$. Mia ate less than the whole bar, so Eli ate more.
- Choice D is correct.** **(3.M.5)** This equation uses subtraction instead of addition. The correct form is $6 \times (5 + 2) = 6 \times 5 + 6 \times 2$.
- Choice D is correct.** **(3.NS.5)** $\frac{6}{8}$ and $\frac{3}{4}$ mark the same point on the line.
- Choices A and C are correct.** **(3.G.2)** Step 1: Total boxes: $60 \div 6 = 10$ boxes, so A is true. Step 2: Figures sold: $5 \times 6 = 30$ figures, so B is false. The remaining figures are $60 - 30 = 30$, so C is true. D is false because each box has 6 figures, and E is false because 30 figures remain.
- Choice D is correct.** **(3.NS.4)** $\frac{2}{6} = \frac{1}{3}$. When Sam eats $\frac{2}{6}$ of Bar 2, he ate the same amount as $\frac{1}{3}$ of Bar 1.
- The correct answer is 8.** **(3.NS.3)** Eight equal parts of size $\frac{1}{8}$ each sum to the whole interval.
- Choice A is correct.** **(3.M.5)** Area = width \times height, so $72 = 8 \times \text{height}$. Therefore, height = $72 \div 8 = 9$ inches. Choice B (80) adds area and width; C (64) is area minus width; D (10) is a common computation error.
- Choice A is correct.** **(3.G.3)** $\frac{1}{4}$ of a bar divided into 4 equal parts is 1 part.
- Choice A is correct.** **(3.CA.3)** The picture shows 12 items split into 6 equal groups. The division sentence is $12 \div 6 = 2$.
- Choice D is correct.** **(3.CA.3)** The addition $9 + 9 + 9 + 9$ has four 9's, so it equals $4 \times 9 = 36$.
- Choice A is correct.** **(3.CA.7)** Think: $32 \div 8 = 4$. Check: $8 \times 4 = 32$.
- Choice A is correct.** **(3.CA.1)** Ones: $0 - 3$ requires regrouping, so $10 - 3 = 7$. Tens: $9 - 4 = 5$ (after regrouping). Hundreds: $4 - 2 = 2$ (after regrouping). Answer: 257.
- Choice D is correct.** **(3.CA.8)** Even \times even = even, and even \times odd = even. Only odd \times odd = odd.
- Choice B is correct.** **(3.M.3)** $9 : 23 \text{ PM} + 9 \text{ hours} = 6 : 23 \text{ AM}$. Then $6 : 23 + 37 \text{ min} = 7 : 00 \text{ AM}$.
- Choice A is correct.** **(3.G.1)** A square has 4 equal sides (making it a rhombus) and 4 right angles (making it a rectangle). So a square is both.
- Choice D is correct.** **(3.CA.5)** 8×6 means 8 groups of 6. Skip-counting: 6, 12, 18, 24, 30, 36, 42, 48. The product is 48.
- Choice A is correct.** **(3.NS.3)** The dot is at the first tick out of six equal parts, so it represents $\frac{1}{6}$.
- The correct answer is 45 students.** **(3.DA.1)** Soccer: $4 \times 5 = 20$. Basketball: $3 \times 5 = 15$. Kickball: $2 \times 5 = 10$. Total: $20 + 15 + 10 = 45$.

Practice Test 2 Answers and Explanations



Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 9 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 9 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

STRONG TODAY. SUCCESS TOMORROW.

Give your child the tools they need to excel in **Grade 3 Math!** This book includes **9 complete practice tests** that follow grade-level standards and help students build confidence, sharpen skills, and achieve success.

9
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Aligned to Standards



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