

3

Indiana ILEARN

GRADE 3

MATH PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



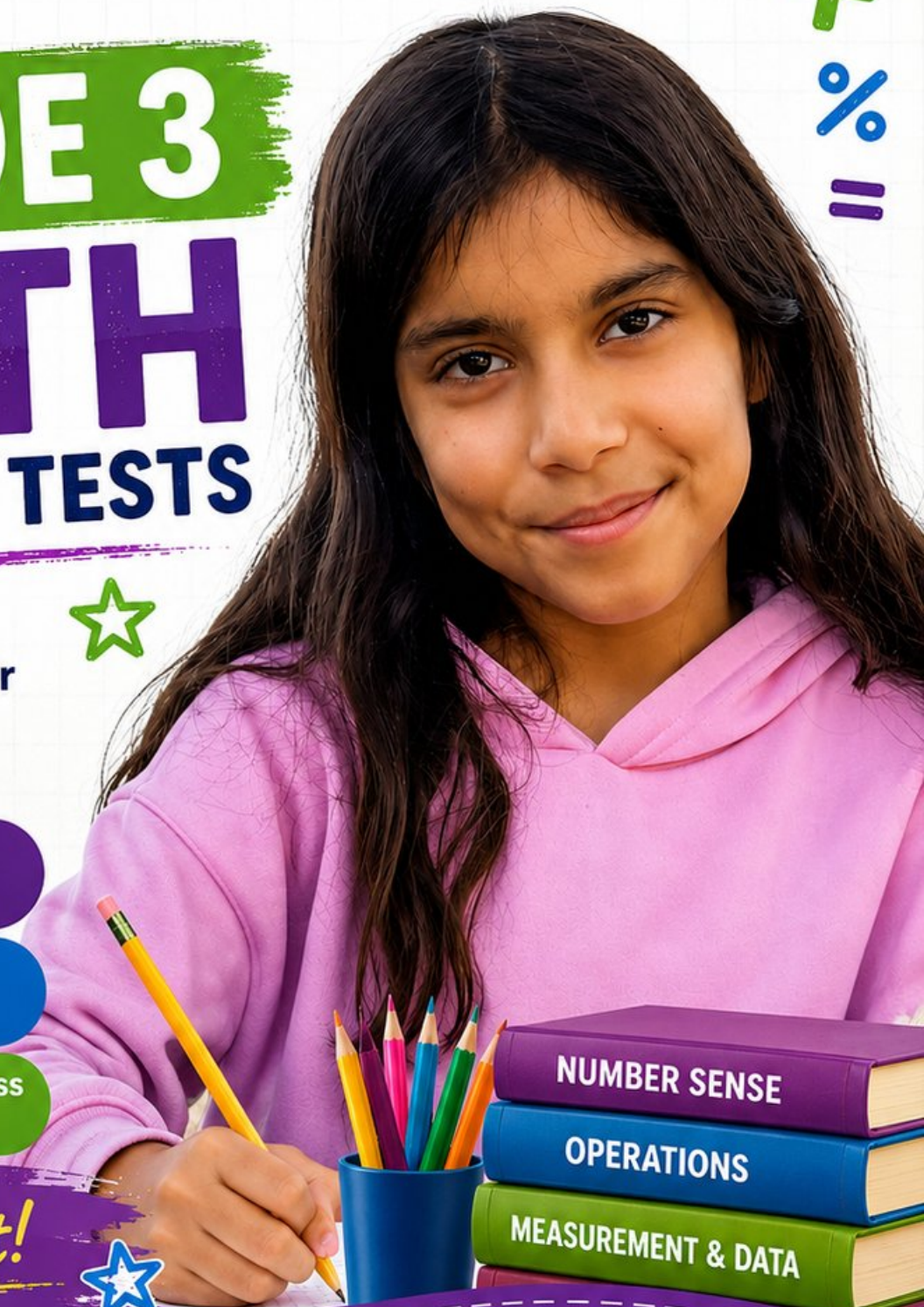
Build Confidence
with Targeted Practice



Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice

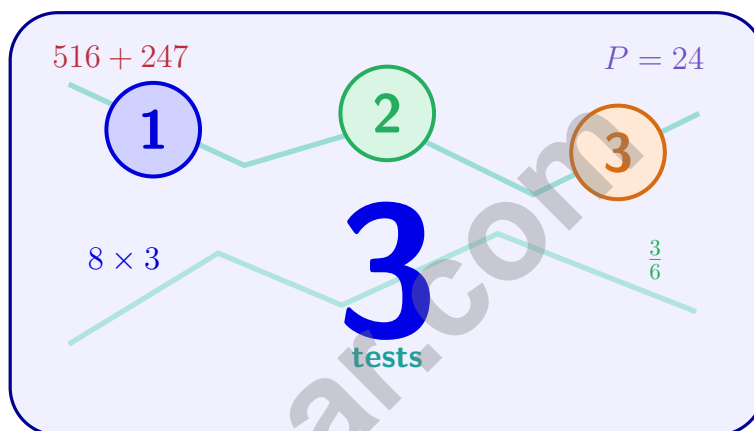


Be Ready.
Do Your Best!



3 Indiana ILEARN Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 review, Indiana ILEARN strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome to the Indiana Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



To the Grade 3 Trail Scout

This book is your practice trail for the Indiana ILEARN. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

Spot

Read carefully and find what the problem is really asking.

Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

Signal

Check that your answer makes sense before you wave the next question on.

Trail promise: I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the Indiana ILEARN asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

What strong ILEARN work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.



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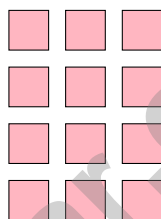
1) A tiled rectangle shows $2 \times (8 + 4)$. What is the combined area of the two smaller rectangles?

- A. 24
- B. 20
- C. 18
- D. 16

2) Sam has 8 groups of 10 stickers. How many stickers does Sam have in total?

Tens	Ones
8	0

- A. 18
- B. 108
- C. 810
- D. 80

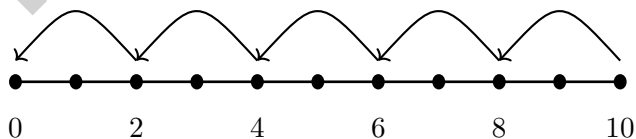


3)

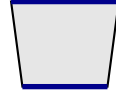
How many small squares are in this grid?

- A. 15
- B. 7
- C. 10
- D. 12

4) Which number sentence is shown by the repeated subtraction on the number line?



- A. $10 \div 2 = 5$
- B. $10 \div 5 = 2$
- C. $10 - 2 = 8$
- D. $2 \times 5 = 10$



5)

Top and bottom are parallel

In a trapezoid, exactly how many pairs of parallel sides are there?

- A. 0 pairs C. 2 pairs
 B. 1 pair D. 3 pairs

6) What number makes the equation true?

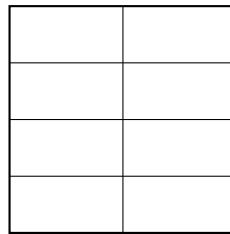
$$\square \times 5 = 35$$

- A. 9 C. 6
 B. 8 D. 7

7) How many halves make one whole?



8) A square is divided into 8 equal parts by drawing 1 vertical line and 3 horizontal lines through the middle. What fraction of the square is one part?



- A. $\frac{1}{4}$ C. $\frac{2}{8}$
 B. $\frac{1}{8}$ D. $\frac{1}{2}$



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9) A rectangular garden has a length of 8 m and a width of 6 m. What is the area?

A. 28 m^2

C. 14 m^2

B. 42 m^2

D. 48 m^2

10) Which fraction equals $\frac{1}{4}$?

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

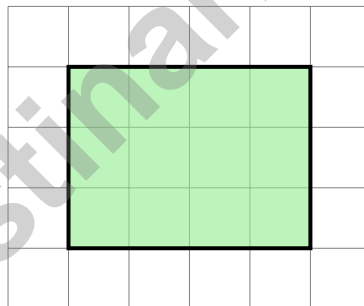
C. $\frac{1}{8}$

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

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

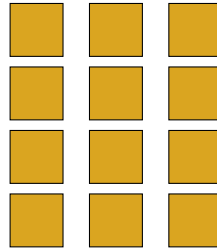
11) Which is closer to 1: $\frac{1}{3}$ or $\frac{1}{2}$?

12) Count the shaded square units on this grid without using multiplication. Is it possible?

 A. Yes, you can count them one by one C. Only if the shape is a square B. No, you must multiply D. Only if you know the perimeter

1) Mia tiles a rectangle that is 3 tiles wide and 6 tiles tall. Jordan tiles a rectangle that is 2 tiles wide and 9 tiles tall. Whose rectangle has a bigger area?

- A. Mia's rectangle
 B. Jordan's rectangle
 C. They have the same area
 D. Cannot tell from this information



2)

How many rectangles are shown?

- A. 7 rectangles
 B. 10 rectangles
 C. 4 rectangles
 D. 12 rectangles

3) Noah has $\frac{4}{1}$ pencils. How many whole pencils?

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

4) Mia spent \$176 on books and \$245 on pencils. How much did Mia spend in total?

- A. \$411
 B. \$431
 C. \$420
 D. \$421

5) A bag of flour weighs 3 kilograms. If a baker buys 7 bags of flour, how much flour does he have in total?

- A. 10 kg
 B. 20 kg
 C. 4 kg
 D. 21 kg



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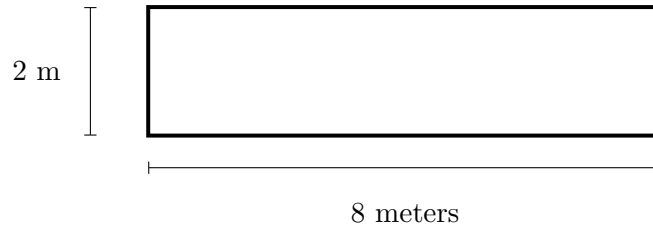
6) Which problem does *not* equal 180?

A. 9×20 (equals 180)

B. 6×30 (equals 180)

C. 18×10 (equals 180)

D. 3×50 (equals 150, not 180)



7)

Find the perimeter.

A. 10 m

B. 16 m

C. 20 m

D. 24 m

8) Mia drinks juice from four bottles. Each bottle holds 250 mL. How many milliliters does she drink in total?

A. 250 mL

B. 750 mL

C. 1000 mL

D. 2000 mL

9) A number line from 0 to 1 is divided so the first tick is at $\frac{1}{3}$. How many equal parts are there in total?



1) A number line from 0 to 1 is divided into equal parts. Which first tick is closest to 0?

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

- C. $\frac{1}{6}$
- D. $\frac{1}{8}$

2)

×	1	2	3	4
2	2	4	6	8

All highlighted products are even. Why?

- A. Because they are in a table
- B. Because they have 4 entries

- C. Because the numbers are small
- D. Because they are multiplied by 2



4 units

3)

4 units

What is the area of this square?

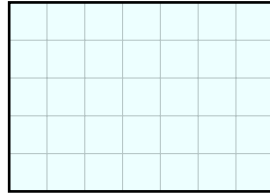
- A. 8 sq units
- B. 16 sq units

- C. 12 sq units
- D. 20 sq units



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4) This grid shows a rectangle.

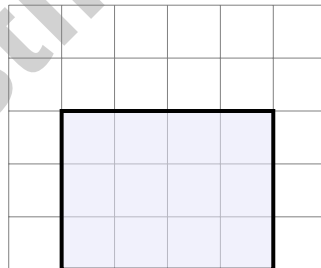


What is the area in square units?

- A. 25 sq units
- B. 30 sq units
- C. 35 sq units
- D. 40 sq units

5) A student starts eating lunch at 11 : 38 AM. Recess starts at 12 : 04 PM. How many minutes until recess?

6) Look at the grid. What is the area of this shaded region?



- A. 9 square units
- B. 12 square units
- C. 10 square units
- D. 15 square units

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 builds stronger math habits.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(3.M.5)** $2 \times (8 + 4) = 2 \times 12 = 24$ or $(2 \times 8) + (2 \times 4) = 16 + 8 = 24$.
- 2) **Choice D is correct.** **(3.CA.1)** 8 groups of 10 = $8 \times 10 = 80$ stickers. The place-value chart shows 8 tens and 0 ones, which equals 80.
- 3) **Choice D is correct.** **(3.CA.3)** The grid has 3 columns and 4 rows of small squares. So $3 \times 4 = 12$ squares.
- 4) **Choice A is correct.** **(3.CA.3)** The number line shows 5 jumps of -2 from 10 to 0. This represents $10 \div 2 = 5$ (there are 5 groups of 2 in 10).
- 5) **Choice B is correct.** **(3.G.1)** A trapezoid is defined by having exactly one pair of parallel sides. This is what makes it different from a parallelogram.
- 6) **Choice D is correct.** **(3.CA.7)** Use the inverse: $35 \div 5 = 7$. Check: $7 \times 5 = 35$.
- 7) **The correct answer is 2.** **(3.NS.2)** $\frac{1}{2} + \frac{1}{2} = 1$, so 2 halves make one whole.
- 8) **Choice B is correct.** **(3.G.3)** When divided into 8 equal parts, each part is $\frac{1}{8}$ of the whole square.
- 9) **Choice D is correct.** **(3.CA.7)** Area = $8 \times 6 = 48 \text{ m}^2$.
- 10) **Choice B is correct.** **(3.NS.4)** Multiply numerator and denominator by 2: $\frac{1 \times 2}{4 \times 2} = \frac{2}{8}$.
- 11) **The correct answer is $\frac{1}{2}$.** **(3.NS.5)** $\frac{1}{2}$ is larger, so it is closer to 1.
- 12) **Choice A is correct.** **(3.3(M))** You can count the squares directly by pointing at each one (16 total). You can also multiply: $4 \times 4 = 16$. Counting and multiplying are both valid ways to find area.
- 13) **The correct answer is 4 books.** **(3.DA.1)** Maya: $7 \times 2 = 14$. Leo: $5 \times 2 = 10$. Frewer: $14 - 10 = 4$.
- 14) **Choice B is correct.** **(3.NS.3)** At $\frac{1}{4}$ inch there are 4 X's. At $\frac{1}{2}$ inch there are 2 X's. The difference is $4 - 2 = 2$ days.
- 15) **Choices A and B are correct.** **(3.CA.7)** The fact family for 5, 6, and 30 includes multiplication facts and related division facts. Options A ($5 \times 6 = 30$) and B ($30 \div 5 = 6$) are correct. C, D, and E are addition or subtraction statements, so they are not part of this multiplication/division fact family.
- 16) **Choice B is correct.** **(3.NS.3)** Counting from 0: each small tick mark is $\frac{1}{2}$. Point S is at the 5th tick (at position 2.5), so it is $5 \times \frac{1}{2} = \frac{5}{2}$.
- 17) **Choice B is correct.** **(3.NS.1)** $\frac{8}{2}$ means 8 halves. 2 halves make 1 whole, so $8 \div 2 = 4$ wholes.
- 18) **Choice D is correct.** **(3.CA.5)** $5 \times 8 = 40$ is correct. The others: $6 \times 7 = 42$, $9 \times 5 = 45$, $7 \times 6 = 42$.
- 19) **Choice C is correct.** **(3.M.5)** $8 \times 4 = 32$ unit squares.
- 20) **Choice B is correct.** **(3.CA.5)** Area = length \times width. So $20 = 5 \times$ width. Width = $20 \div 5 = 4$ feet.
- 21) **Choice D is correct.** **(3.NS.4)** $\frac{2}{4} = \frac{3}{6} = \frac{1}{2}$. Both mark the halfway point on their respective number lines.
- 22) **Choice C is correct.** **(3.G.3)** Top: $3 \times 5 = 15$ sq units. Bottom left: $2 \times 4 = 8$ sq units. Bottom right: $2 \times 4 = 8$ sq units. Total: $15 + 8 + 8 = 31$ sq units.
- 23) **Choice D is correct.** **(3.NS.6)** In rounding, "look at the digit" means check its value to apply the rule: if it's 5 or more, round up; if less than 5, round down.
- 24) **Choice D is correct.** **(3.CA.5)** The distributive property lets you break apart a factor: $8 \times 3 = 8 \times (2 + 1) = 8 \times 2 + 8 \times 1 = 16 + 8 = 24$.
- 25) **Choice C is correct.** **(3.NS.3)** The dot is at the 5th mark out of 8 equal divisions, so the fraction is $\frac{5}{8}$.
- 26) **Choice C is correct.** **(3.M.6)** A 3×3 checkerboard contains $3 \times 3 = 9$ unit squares.
- 27) **Choice B is correct.** **(3.M.5)** Area = length \times width = $10 \times 3 = 30$ square meters.
- 28) **Choice C is correct.** **(3.NS.5)** $\frac{2}{4}$ and $\frac{1}{2}$ both equal half of a whole.
- 29) **Choice A is correct.** **(3.G.2)** First add: $15 + 9 = 24$ cars. Then divide by 3 children: $24 \div 3 = 8$ cars per child. Choice A correctly shows both steps with parentheses.
- 30) **Choice B is correct.** **(3.M.3)** The minute hand on 3 means 15 minutes. The hour hand between 11 and 12 means the hour is 11. So the time is 11 : 15.



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A Note From Your Math Friend

Hi, Math Star!

◇ Wow! You finished 3 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 3 tests, you learned that trying is the most important thing. ★

Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

Big tip for test day: take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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

Jay Daie

Your Math Friend

Testinar.com

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. Succeed Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!



What's Inside?



Standards-Aligned Practice

Questions designed to cover essential Grade 3 math standards.



Variety of Question Types

Multiple-choice, short answer, and more to build well-rounded skills.



Real-World Applications

Engaging problems that connect math to everyday life.



Step-by-Step Progress

Track improvement and build confidence with every test.



Build Skills & Boost Confidence

Strengthen understanding and feel prepared for test day.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
- ✓ And More!



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