

7 Indiana ILEARN

7
PRINTED
TESTS
+
2
ONLINE
TESTS

Grade 6 MATH PRACTICE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.

Standards-Aligned *Steady Southern*
Problem Solving for Comprehensive
Assessment Program

-  7 Full-Length Printed Tests
-  Standards-Aligned Math Practice
-  Detailed Answer Keys and Explanations
-  Build Confidence. Achieve Success.



You've
Got
This!



PREPARE
PRACTICE
SUCCEED



PRACTICE
WITH PURPOSE



STRENGTHEN
MATH SKILLS



REVIEW, IMPROVE,
AND SUCCEED

7 Indiana ILEARN Grade 6 Math Practice Tests

*Standards-Aligned Steady Hoosier Practice for Indiana Learning Evaluation Assessment
Readiness Network*



Seven complete 40-question Grade 6 practice rounds for ILEARN, built for steady Hoosier practice with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

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Welcome, Indiana Math Explorer!

Eight focused rounds using steady Hoosier practice

This book gives you seven full Grade 6 practice tests for ILEARN. Each round uses quiet fields, town roads, and clean problem-solving steps as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Indiana Practice Promise

Work with purpose: read fully, solve neatly, and explain why the answer makes sense.

Read

Plan

Check

How to Use This Book

A seven-session routine for steady Hoosier practice

1. **Work in order.** Take one 40-question test at a time in a quiet place.
2. **Preview the skills.** Scan the quick review pages before beginning the first round.
3. **Correct actively.** Retry missed items before reading the full explanation.
4. **Mark confidence.** Put a small star beside problems where your plan felt strong.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Indiana review rhythm: Treat each test as a practice lap, then tune one habit before the next start.



What Is Inside?

Eight ILEARN tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 7	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

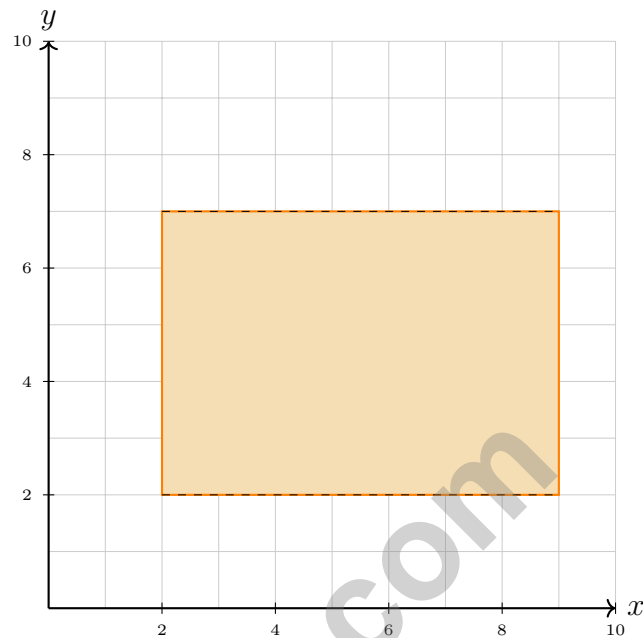
The tests are mixed on purpose. Steady hoosier practice means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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1)

A rectangle on a map has vertices at $(2, 2)$, $(9, 2)$, $(9, 7)$, and $(2, 7)$, representing a city block. If each unit represents 100 meters, what is the area in square meters?

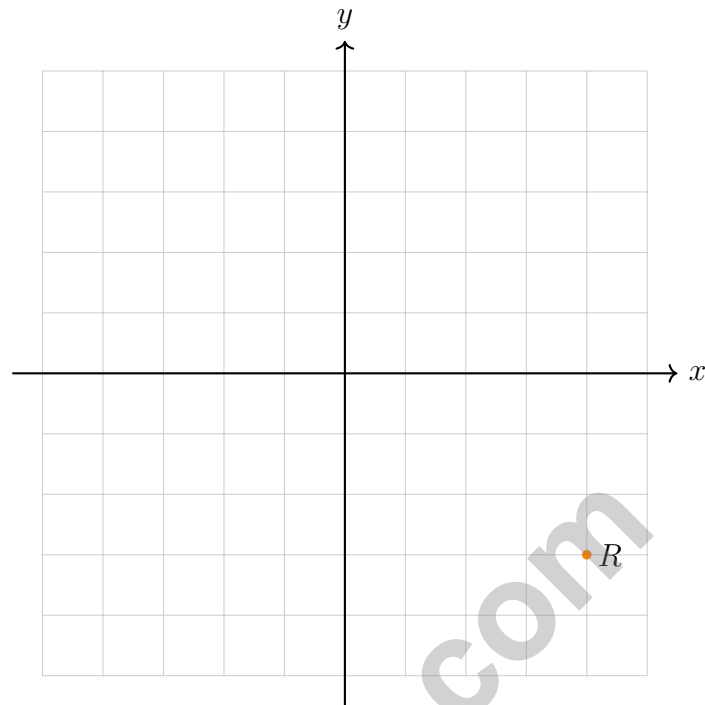
- A. 35,000 sq. m C. 3,500,000 sq. m
 B. 350,000 sq. m D. 35,000,000 sq. m

2) A drink contains 0.5 L of juice. If you pour 0.3 L, how much is left?

- A. 0.8 L C. 0.2 L
 B. 0.15 L D. 0.35 L



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3)

Point R is reflected across the y -axis. In which quadrant does the reflected point lie?

- A. Quadrant I C. Quadrant III
 B. Quadrant II D. Quadrant IV

4) Which is greater: $\frac{7}{10}$ or 65%?

- A. $\frac{7}{10}$ C. They are equal
 B. 65% D. Cannot be determined



1) A rectangle has area 24 square units and length 8 units. What is its perimeter?

- A. 22 units C. 16 units
 B. 20 units D. 24 units

2)

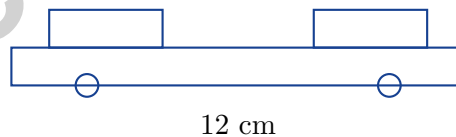
Type	Count
Red marbles	12
Blue marbles	8

What is the ratio of blue marbles to red marbles in simplest form?

- A. 3 : 2 C. 12 : 8
 B. 8 : 12 D. 2 : 3
- 3) Which fraction is equivalent to 72%?

- A. $\frac{72}{1000}$ C. $\frac{100}{72}$
 B. $\frac{28}{100}$ D. $\frac{72}{100}$

4) A toy car model is 12 cm long. The scale of the model is 1 cm = 0.5 m. What is the length of the actual car?



- A. 4 m C. 8 m
 B. 5 m D. 6 m



5) Which expression is equivalent to $3 \times 3 \times 3 \times 3$?

A. 3^2

C. 3^4

B. 3×4

D. 12^3

6) Three students measured the ratio of pennies to dimes in their wallets:

- Student A: 4 pennies and 6 dimes
- Student B: 10 pennies and 15 dimes
- Student C: 8 pennies and 10 dimes

Which students have the same penny-to-dime ratio?

 A. Students A and B only C. Students B and C only B. Students A and C only D. All three students

7) A bakery sells 24 cookies for \$6.00. What is the unit price per cookie?

 A. \$0.15 per cookie C. \$0.25 per cookie B. \$0.20 per cookie D. \$0.30 per cookie

8) A car travels at a constant speed. The table shows equivalent distances and times:

Distance (miles)	Time (hours)
60	1
120	2
?	3

 A. 160 C. 200 B. 180 D. 220

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Indiana ILEARN Practice Test Answer Keys

How to use this Indiana ILEARN answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to steady Hoosier practice
3. rework the problem before reading the full explanation, using this reminder:
Work with purpose: read fully, solve neatly, and explain why the answer makes sense.

A calm Indiana correction routine turns every missed item into useful practice. Treat each test as a practice lap, then tune one habit before the next start.

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Indiana Practice Test Answers and Explanations

Review the seven printed ILEARN tests with steady, prepared, and ready to keep improving habits.

Practice Test 1 Answers and Explanations

- Choice C is correct.** **(6.GM.1)** Multiply yards by the conversion factor: $7 \times 3 = 21$ feet.
- Choice D is correct.** **(6.DS.1)** When mean < median, the distribution is skewed left. Small outliers on the left pull the mean down below the median.
- Choice B is correct.** **(6.DS.2)** $IQR = Q_3 - Q_1 = 88 - 72 = 16$. The IQR tells us the spread of the middle half of the scores.
- Choice B is correct.** **(6.DS.2)** Histograms are designed to show the frequency distribution of grouped data across multiple units, making them ideal for showing how household incomes are distributed.
- Choice A is correct.** **(6.DS.2)** Class A values are 65, 67, 69, 72, 76, 78. The range is $78 - 65 = 13$.
- Choice C is correct.** **(6.RP.4)** Students scoring 70–80 (8) + 80–90 (4) = 12 students. Total students = $2 + 5 + 8 + 4 + 1 = 20$. Percentage = $\frac{12}{20} = 0.6 = 60\%$.
- Choice D is correct.** **(6.RP.4)** Scale: 1 cm = 2 m. Blueprint width: 8 cm. Actual width: $8 \times 2 = 16$ meters.
- Choice D is correct.** **(6.GM.4)** From $V = L \times W \times H$: $45 = 6 \times 2.5 \times H$, so $45 = 15 \times H$, giving $H = 3$ in.
- Choice D is correct.** **(6.DS.3)** Mean = $\frac{5 + 10 + 15 + 20 + 25}{5} = \frac{75}{5} = 15$. For symmetric data, mean equals median.
- Choice C is correct.** **(6.DS.1)** $IQR = Q_3 - Q_1 = 7.5 - 2.5 = 5$.
- Choice B is correct.** **(6.RP.1)** Total tiles = $5 + 3 + 2 = 10$. Non-A tiles = $3 + 2 = 5$. Probability = $\frac{5}{10} = \frac{1}{2}$.
- Choice D is correct.** **(6.RP.1)** $\frac{1}{5}$ equals 20%. The central angle is $0.20 \times 360^\circ = 72^\circ$.
- The correct answer is -8.** **(6.NS.3)** On a number line, -8 is less than -3.
- Choice B is correct.** **(6.AF.1)** The constant 6 stands alone. The coefficient of the variable j is the number multiplied by j , which is 4.
- The correct answer is 14.** **(6.AF.5)** Length: $|5 - 1| = 4$ units. Width: $|4 - 1| = 3$ units. Perimeter: $2(4 + 3) = 14$ units.
- Choice B is correct.** **(6.AF.1)** Substitute $s = 5$: $P = 4(5) = 20$ units.
- The correct answer is 4.** **(6.NS.3)** Solve $-10 + x = -6$, so $x = 4$.
- Choice B is correct.** **(6.NS.7)** Check each: A: $3(x + 2) = 3x + 6 \neq 3x + 2$. B: $5(2y - 1) = 10y - 5$. ✓ C: $4x - 4x + 2 = 2 \neq 2x$. D: $2(3a + b) = 6a + 2b \neq 6a + b$.
- Choice A is correct.** **(6.AF.4)** "At least \$0.50" means $m \geq 0.50$. "Less than \$2.00" means $m < 2.00$.
- Choice B is correct.** **(6.RP.5)** The line goes from approximately (1, 72) to (5, 100). Slope = $\frac{100 - 72}{5 - 1} = \frac{28}{4} = 7$ points per hour.
- The correct answer is Both coordinates are positive.** **(6.AF.5)** In Quadrant I (upper right), the x -coordinate is always positive (A is correct) and the y -coordinate is always positive (C is correct). Statement B is false because $y > 0$ in Quadrant I. Statement D is not always true. Statement E is false because Quadrant I is upper right, not lower right.
- Choice C is correct.** **(6.DS.2)** The different responses show that people exercise different amounts. This variability is expected and indicates the question is statistical. Variability is a defining feature of statistical questions.
- Choice D is correct.** **(6.RP.2)** Match 35 red pens to the 7 red parts: $35 \div 7 = 5$, so each part is worth 5 pens. Blue has 5 parts, so $5 \times 5 = 25$ blue pens.
- Choice A is correct.** **(6.RP.2)** Honey Flakes cost $3.60 \div 12 = \$0.30$ per ounce. Crispy Oats cost $5.12 \div 16 = \$0.32$ per ounce. Honey Flakes has the lower unit price.
- Choice B is correct.** **(6.RP.1)** There are 30 shaded squares (rows 7–9), so $100 - 30 = 70$ unshaded squares. That is 70%.
- Choice D is correct.** **(6.NS.6)** Factors of 16: 1, 2, 4, 8, 16. Factors of 40: 1, 2, 4, 5, 8, 10, 20, 40. The greatest common factor is 8.



Scan me!
For more practice
& answers

From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 7 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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

Jay Daie

Your Math Family

MASTER TODAY. SUCCEED TOMORROW.

This Grade 6 Math Practice Tests book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on comprehensive assessments.

With 7 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

Perfect for classroom use, homework, test preparation, and extra practice at home.



PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence

★ PRACTICE TODAY.
SUCCEED TOMORROW.

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts aligned with standards through meaningful practice.



Test Confidence

Become familiar with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



7 FULL-LENGTH
PRINTED TESTS



STANDARDS-
ALIGNED PRACTICE



DETAILED ANSWER
KEYS & EXPLANATIONS