

6

Indiana I LEARN

GRADE

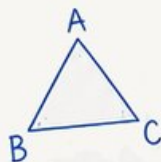
6

MATH

PRACTICE TESTS

Standards-Aligned
Steady Southern
Problem Solving for
Comprehensive
Assessment Program

$$2x + 3 = 11$$



$$7^2 = 49$$

BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!



6 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



6 PRINTED TESTS + 2 ONLINE TESTS

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



PRACTICE

Sharpen skills with targeted practice tests



REVIEW

Understand concepts and strengthen skills



SUCCEED

Build confidence and achieve your best

6 Indiana ILEARN Grade 6 Math Practice Tests

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



Six 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.

Jay Daie and Reza Nazari



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Welcome, Indiana Math Explorer!

Eight focused rounds using steady Hoosier practice

This book gives you six 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 six-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 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	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) Check whether $x = 5$ is a solution to $2x = 10$.

A. Yes, because $2 \times 5 = 10$

C. No, because $5 - 2 = 3$

B. No, because $5 + 2 = 7$

D. Yes, because $10 \div 2 = 5$

2) A coffee shop sells hot drinks only when the temperature is below 75°F . Which inequality represents when hot drinks are sold?

A. $T > 75$

C. $T \geq 75$

B. $T < 75$

D. $T \leq 75$

3) Fuel consumption: A car travels $\frac{3}{5}$ mile on $\frac{1}{6}$ gallon of gas. How many miles does it travel on 1 gallon?

A. $\frac{3}{30}$ miles

C. $3\frac{3}{5}$ miles

B. $\frac{5}{18}$ mile

D. $1\frac{4}{5}$ miles

4) A golf player's score relative to par is tracked as: hole 1 is -2 (two under par), hole 2 is $+1$ (one over par), hole 3 is -1 (one under par). What is the total score relative to par after three holes?

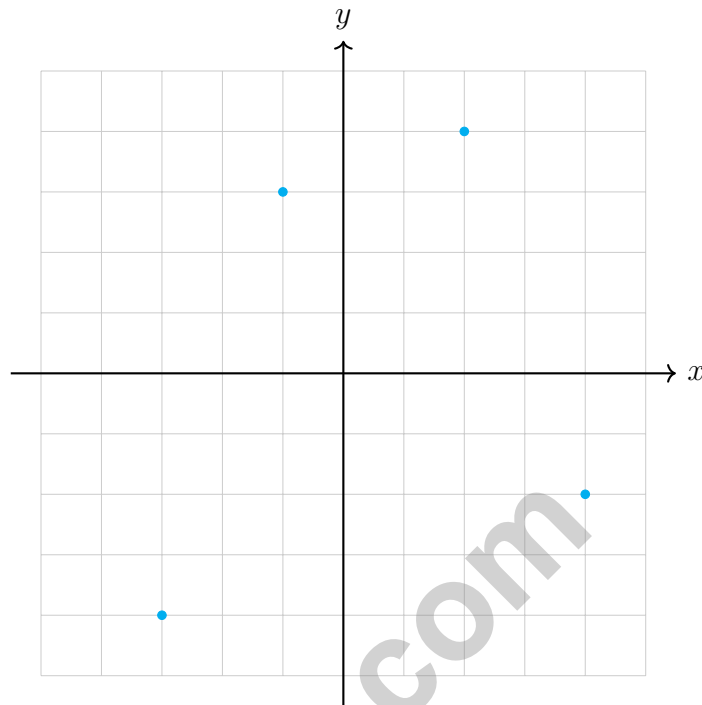
A. $+2$

C. $+4$

B. 0

D. -2





5)

Which of the plotted points is in Quadrant III?

A. (2, 4)

C. (4, -2)

B. (-1, 3)

D. (-3, -4)

6) A school has s students. It also has $s + 25$ staff members. If the school has 600 students, how many staff members does it have?



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7)

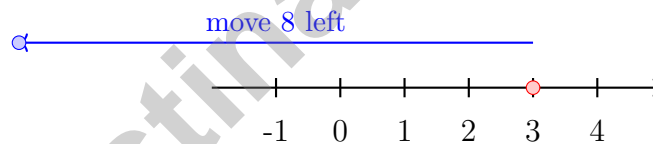
Player	Score
Alice	8
Bob	-3
Carol	5
David	-1

Who has the lowest score?

- A. Alice C. Carol
 B. David D. Bob

8) The distance between points $(4, 5)$ and $(4, y)$ is 7 units. The points have the same x -coordinate. What could y be?

- A. $y = -3$ or $y = 12$ C. $y = -1$ or $y = 11$
 B. $y = -2$ or $y = 12$ D. $y = 0$ or $y = 10$

9) What is $3 - 8$?

- A. -5 C. 11
 B. 5 D. -11

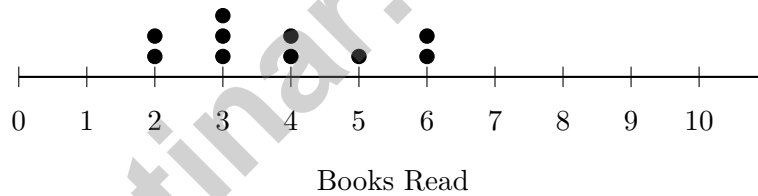
10) What is $\frac{30}{-\frac{5}{5}}$?

- A. 6 C. 25
 B. -6 D. -25



- 1) If a triangle's base is doubled while keeping the height the same, how does the area change?
- A. It stays the same. C. It is halved.
- B. It is quadrupled. D. It is doubled.
- 2) Is this a statistical question? "What is the price of a loaf of bread at the grocery store?" Explain why or why not.

- 3) The dot plot below shows the number of books read by students in one month.



What is the median number of books read?

- A. 3 C. 5
- B. 4 D. 6
- 4) For the data set 2, 4, 6, 8, the mean is 5. Calculate the MAD.
- A. 1 C. 3
- B. 2 D. 5



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5) A teacher examines a stem-and-leaf plot and notices that all leaves for a particular stem are identical (e.g., stem 5 has leaves 3, 3, 3, 3). What does this indicate about the data?

- A. The data is not properly organized C. The plot must contain an error
 B. Several data values are the same D. All data must be in the same range (repeated data points)

6) A survey asked people to rate satisfaction on a scale of 1–5. The results: 1 (2 people), 2 (5 people), 3 (15 people), 4 (20 people), 5 (8 people).

Which display would BEST show that most people were satisfied (ratings 4–5)?

- A. Histogram grouping 1–2, 3, and 4–5 C. Circle graph showing all five ratings
 B. Bar graph with one bar per rating D. Dot plot with 50 dots

7)



The dots show blue and red counters. What is the ratio of blue to red in fraction form?

- A. $\frac{6}{9}$ C. $\frac{3}{2}$
 B. $\frac{3}{9}$ D. $\frac{2}{1}$

8) Find the LCM of 10, 12, and 15.

- A. 30 C. 120
 B. 60 D. 180



7) Which statement is true?

- A. $|-7| < |7|$
 C. $|-7| > |7|$
 B. $|-7|$ is undefined
 D. $|-7| = |7|$

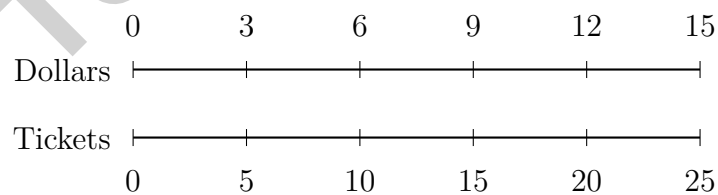
8) A pizza restaurant sells two circular pizzas: one with a diameter of 10 inches and one with a diameter of 14 inches. Using $\pi \approx 3.14$, what is the difference in their areas?

- A. 37.68 in^2
 C. 100.48 in^2
 B. 75.36 in^2
 D. 150.72 in^2

9) A school held a basketball tournament. Team A scored 35 points and Team B scored 42 points. Which ratio correctly compares the teams' scores?

- A. $5 : 6$
 C. $7 : 6$
 B. $6 : 5$
 D. $6 : 7$

10) Find the mean absolute deviation of 70, 75, 80, 82, 85, 88, 90, 92, 95. Round to the nearest hundredth.



11)

Based on the double number line, which statements are true?

- A. 1 ticket costs \$0.60
 C. 25 tickets cost \$15
 B. 5 tickets cost \$3
 D. All of the above



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 six printed ILEARN tests with steady, prepared, and ready to keep improving habits.

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **6.AF.2** Substitute $x = 5$ into the equation. Check: $2(5) = 10$ is true.
- 2) **Choice B is correct.** **6.AF.4** “Below 75” means strictly less than, not including 75. The inequality is $T < 75$.
- 3) **Choice C is correct.** **6.NS.3** $\frac{3}{5} \div \frac{1}{6} = \frac{3}{5} \times 6 = \frac{18}{5} = 3\frac{3}{5}$ miles.
- 4) **Choice D is correct.** **6.NS.1** Total is $(-2) + (+1) + (-1) = -2 + 1 - 1 = -2$ relative to par.
- 5) **Choice D is correct.** **6.AF.5** The point in Quadrant III (lower left) has both negative coordinates. The point $(-3, -4)$ fits this description.
- 6) **The correct answer is 625.** **6.RP.5** If $s = 600$, then $\text{staff} = s + 25 = 600 + 25 = 625$.
- 7) **Choice D is correct.** **6.NS.3** Bob has a score of -3 , which is the lowest of all scores: $-3 < -1 < 5 < 8$.
- 8) **Choice B is correct.** **6.AF.5** Since $|5 - y| = 7$, then $y = 5 - 7 = -2$ or $y = 5 + 7 = 12$.
- 9) **Choice A is correct.** **6.NS.3** $3 - 8 = 3 + (-8) = -5$. Rewrite subtraction as adding the opposite.
- 10) **Choice B is correct.** **6.GM.2** Positive divided by negative is negative: $\frac{30}{-5} = -6$.
- 11) **Choice D is correct.** **6.GM.2** On a number line, jump forward means add: $-8 + 15 = 7$.
- 12) **Choice D is correct.** **6.AF.1** $3xy = 3 \times x \times y$. The factors are the quantities being multiplied. Options A, B, C contain errors: A uses the term not the coefficient, C misidentifies the constant, and B counts wrong.
- 13) **Choice C is correct.** **6.AF.1** Lexi incorrectly squared the entire expression 2×3 before applying the exponent to just x . The exponent applies only to x , not to the coefficient 2.
- 14) **The correct answer is 24.** **6.GM.3** Solving: $84 = \frac{1}{2} \times b \times 7 \Rightarrow b = 24$ m.
- 15) **Choice D is correct.** **6.NS.7** Combine like terms: $(9p + p) + (-4q + 2q) = 10p - 2q$.
- 16) **Choice C is correct.** **6.AF.4** “Less than or equal to” directly translates to the \leq symbol: $f \leq 50$.
- 17) **Choice C is correct.** **6.RP.5** If 8 gallons cover 160 miles, then 320 miles (twice as far) requires $2 \times 8 = 16$ gallons.
- 18) **Choice C is correct.** **6.AF.5** Find the side lengths from the coordinates: width = $|8 - 1| = 7$ and height = $|6 - 2| = 4$. Perimeter of a rectangle is $2(\text{width} + \text{height}) = 2(7 + 4) = 22$ units.
- 19) **Choice D is correct.** **6.GM.3** Base: $7 - 1 = 6$ units. Height: $5 - 1 = 4$ units. Area = $\frac{1}{2} \times 6 \times 4 = 12$ square units.
- 20) **The correct answer is Housing and Food are correctly calculated.** **6.RP.5** A: Housing is $40\% \times 2500 = \$1000$. Correct. B: Food is $24\% \times 2500 = \$600$. Correct. C: Utilities is $10\% \times 2500 = \$250$, not \$200. Incorrect. D: Transportation is $12\% \times 2500 = \$300$, not \$250. Incorrect. E: Savings is $14\% \times 2500 = \$350$, not \$400. Incorrect.
- 21) **Choice C is correct.** **6.GM.3** Two triangular bases: $2 \times 15.6 = 31.2$ cm². Three rectangles: $3 \times (6 \times 8) = 3 \times 48 = 144$ cm². Total = $31.2 + 144 = 175.2$ cm².
- 22) **Choice D is correct.** **6.RP.2** From $A = \pi r^2$, we get $201 \approx \frac{22}{7} \times r^2$, so $r^2 \approx 64$, thus $r = 8$ m.
- 23) **Choice A is correct.** **6.DS.1** The bar at the 25 mark (representing the 20–30 interval) has a height of only 2, the smallest of all intervals.
- 24) **Choice C is correct.** **6.DS.2** Maximum = 18, minimum = 12. Range = $18 - 12 = 6$ inches.
- 25) **Choice C is correct.** **6.DS.3** Total students = 30, so the median is at position 15.5 (average of 15th and 16th values). Cumulative: 60–69 ($n = 5$), 70–79 ($n = 13$), 80–89 ($n = 23$). The 15th and 16th values fall in the 80–89 interval.
- 26) **Choice D is correct.** **6.DS.2** Stem 9 includes 90, which is not above 90. Only stems 91–98 are above 90 (5 out of 10), so D is false.
- 27) **The correct answer is 9.** **6.GM.3** Area = $5 \times 1.8 = 9$ square yards.
- 28) **Choice C is correct.** **6.RP.1** 40% of 250 is $0.40 \times 250 = 100$ students.



Scan me!
For more practice
& answers

Star Player Pep Talk

Hi, Star Player!

◇ 6 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 6 tests. It's real now! ★

Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

Star tip: on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

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

Jay Daie

Your Math Coach

PRACTICE 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 6 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.

6
PRINTED
TESTS

+
2
ONLINE
TESTS

PERFECT FOR:

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

★ BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!

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.



6 FULL-LENGTH
PRINTED TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS