

4 Indiana ILEARN

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

**PRINTED
TESTS**



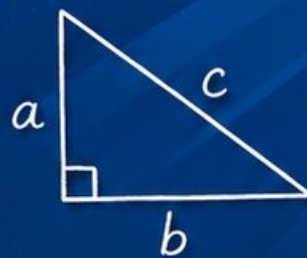
2

**ONLINE
TESTS**



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



**USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.**

4 Indiana ILEARN Grade 6 Math Practice Tests

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



Four 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!

Four focused rounds using steady Hoosier practice

This book gives you four 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 four-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?

Four ILEARN tests, 160 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 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
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

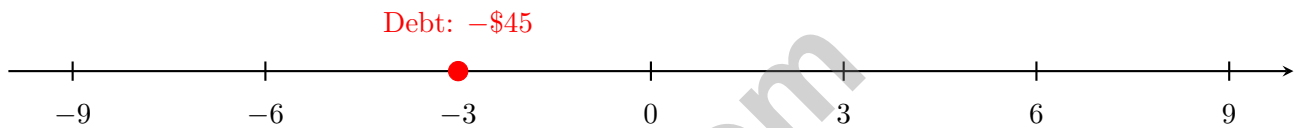
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1) A grocery bill shows 8 apples for \$4.80. A shopper claims the unit price is \$4.80 per apple. What is wrong with this answer?

- A. The shopper used the total cost instead of dividing by quantity
- B. The shopper forgot to convert to cents
- C. The shopper used the wrong number of apples
- D. The answer is actually correct

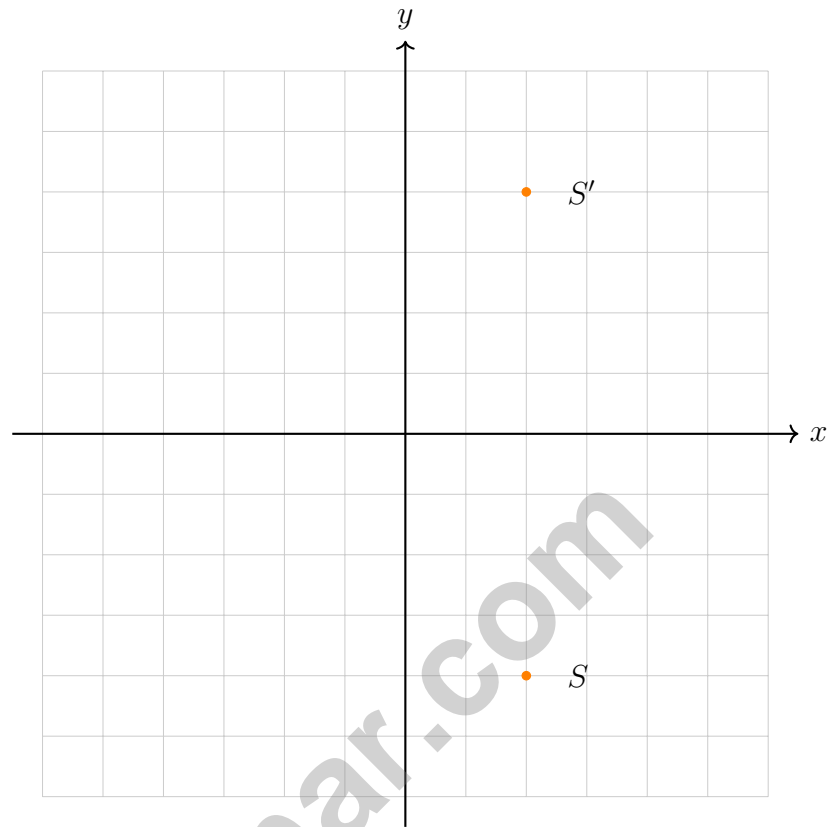
2)



A bank account has a balance of $-\$45$. What does this represent in terms of absolute value?

- A. The account has \$45 owed
- B. The account has \$45 deposited
- C. The account has \$45 in savings
- D. The account is zero



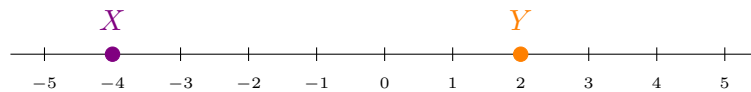


3)

Point S is reflected to create point S' . What is the relationship between the x -coordinates of S and S' ?

- A. They are opposites
- B. One is zero
- C. They are swapped
- D. They are equal

4)

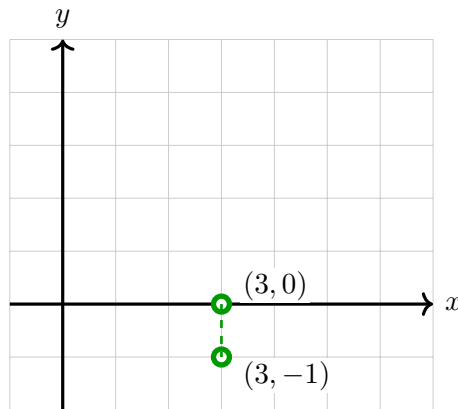


The distance between X and Y is:

- A. 2 units
- B. 4 units
- C. 6 units
- D. 8 units



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For more practice
& answers



5)

What is the distance between $(3, 0)$ and $(3, -1)$?

- A. 0 units
- B. 1 unit
- C. 2 units
- D. 3 units

6) Which chip model shows $-4 + 6$? (Red chips = -1 , Blue chips = $+1$)

Model A: 4 red + 6 blue



Model B: 3 red + 5 blue



- A. Model A; answer is 2
- B. Model B; answer is 2
- C. Model A; answer is 10
- D. Model B; answer is 8

4) A dataset has 10 values. The smallest and largest values are removed, leaving 8 values. Which statement is always true?

- A. The new range is smaller C. The new mean is lower
 B. The new median is higher D. The new IQR must change

5) A bag contains 18 marbles. If the probability of drawing a green marble is $\frac{2}{9}$, how many green marbles are in the bag?

- A. 2 C. 6
 B. 4 D. 9

6) A circular swimming pool has a diameter of 20 feet. Using $\pi \approx 3.14$, find the approximate area of the pool.

7) In a back-to-back stem-and-leaf plot, Class A (left) and Class B (right) show test scores. What is the smallest score in Class A?

Class A	Stem	Class B
7, 5, 2	8	1, 4, 6

- A. 81 C. 84
 B. 82 D. 86



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& answers

1) The table below shows pairs of expressions. Which pair represents the same value?

	Expression 1	Expression 2
A.	$4(5 + 7)$	$20 + 27$
B.	$6(3 + 7)$	$18 + 42$
C.	$3(9 + 5)$	$27 + 10$
D.	$2(11 + 6)$	$22 + 11$

A. Choice A

C. Choice C

B. Choice B

D. Choice D

Step-by-Step: $7,524 \div 44$

Step 1: 44 goes into 75 once. $44 \times 1 = 44$

Step 2: $75 - 44 = 31$. Bring down 2 $\Rightarrow 312$

Step 3: 44 goes into 312 seven times. $44 \times 7 = 308$

Step 4: $312 - 308 = 4$. Bring down 4 $\Rightarrow 44$

Step 5: $44 \div 44 = 1$, remainder 0

Quotient: **171**

2)

What is $7,524 \div 44$?

A. 171

C. 169

B. 170

D. 175

3) Divide: $18.4 \div 4$

A. 4.6

C. 4.06

B. 46

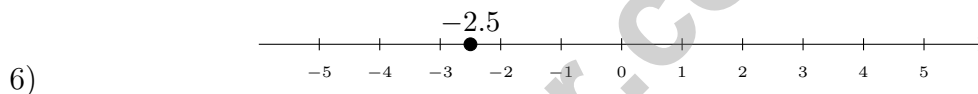
D. 14.4



4) A diver starts at sea level (elevation 0). The diver descends 12 meters. What is the diver's elevation?

- A. 12 meters C. 0 meters
 B. -12 meters D. 24 meters

5) A recipe uses 2 cups of flour for every 1 cup of sugar. If you want to make a batch using 5 cups of flour, how many cups of sugar do you need? Explain your reasoning using the concept of proportionality.



Which two integers is -2.5 between?

- A. -3 and -2 C. 2 and 3
 B. -2 and -1 D. -4 and -2
- 7) On a grid, a store is at $(2, 4)$ and a home is at $(10, 4)$. The scale is 1 unit = 50 meters. What is the actual distance?
- A. 400 m C. 200 m
 B. 300 m D. 500 m



Scan me!
For more practice
& answers

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.



Scan me!
For more practice
& answers

Indiana Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice A is correct.** **(6.RP.2)** The correct unit price is $\$4.80 \div 8 = \0.60 per apple. The shopper stated the total cost as if it were per item, skipping the division step.
- Choice A is correct.** **(6.NS.2)** The absolute value $|-45| = 45$ represents the magnitude. A negative balance means a debt or overdraft of \$45.
- Choice D is correct.** **(6.AF.5)** Point S is at $(2, -4)$ and S' is at $(2, 4)$. Both have $x = 2$. Reflection across the x -axis keeps the x -coordinate the same.
- Choice C is correct.** **(6.NS.3)** $X = -4$ and $Y = 2$. Distance $= 2 - (-4) = 2 + 4 = 6$ units.
- Choice B is correct.** **(6.AF.5)** Same x -coordinate (3): $|0 - (-1)| = |0 + 1| = 1$ unit.
- Choice A is correct.** **(6.NS.3)** $-4 + 6$: use 4 red and 6 blue chips. Pair and remove red-blue pairs. Result: 2 blue chips remaining, so $-4 + 6 = 2$.
- Choice B is correct.** **(6.GM.3)** Area $= 6 \times 2 = 12 \text{ in}^2$.
- The correct answer is 30%.** **(6.RP.1)** $\frac{15}{50} = \frac{30}{100} = 30\%$ (multiply numerator and denominator by 2).
- Choice D is correct.** **(6.GM.4)** $V = 9 \times 2 \times 3 = 18 \times 3 = 54 \text{ in}^3$.
- Choice A is correct.** **(6.AF.5)** All angles are right angles and opposite sides are equal. This is a rectangle.
- The correct answer is 25%.** **(6.AF.1)** Increase is $93.75 - 75 = 18.75$. Percent increase is $\frac{18.75}{75} = 0.25 = 25\%$.
- Choice B is correct.** **(6.GM.3)** Width: $6 - 1 = 5$ units. Height: $7 - 2 = 5$ units. Area $= 5 \times 5 = 25$ square units.
- Choice B is correct.** **(6.GM.3)** A straight line of 6 unit squares cannot fold into a cube without overlap. This is a well-known invalid cube net.
- Choice B is correct.** **(6.NS.6)** $56 = 8 \times 7 = (2 \times 2 \times 2) \times 7 = 2^3 \times 7$. Options A, C, and D contain composite factors.
- Choice C is correct.** **(6.NS.3)** Point T is three tick marks to the right of 0. With quarter-mark spacing, this is $\frac{3}{4}$.
- Choice D is correct.** **(6.AF.4)** $x > -4$ does not include -4 (open circle) and includes all numbers greater than -4 (arrow points right).
- Choice D is correct.** **(6.DS.1)** Adding a value of 45 (larger than the current max of 40) directly changes the maximum from 40 to 45. The other quartiles and median are determined by position and would not change with one additional data point.
- Choice B is correct.** **(6.GM.1)** Assets: $\$250 + \$400 + \$150 = \800 . Net worth: $\$800 - \$200 = \$600$.
- Choice B is correct.** **(6.RP.5)** Option A has a constant ratio: $6/2 = 3$, $12/4 = 3$, and $18/6 = 3$. Option B does not: $4/2 = 2$, $7/4 = 1.75$, and $10/6 \approx 1.67$.
- Choice D is correct.** **(6.RP.5)** Savings is 20% of total, and savings amount is \$20. Total: $\$20 \div 0.20 = \100 .
- Choice B is correct.** **(6.NS.3)** $\frac{2}{9} \times \frac{9}{4} = \frac{18}{36} = \frac{1}{2}$.
- The correct answer is The unit rate is 25 items per hour, and the y-value when $x = 1$ is 25.** **(6.RP.3)** A is correct because $50 \div 2 = 25$ items per hour. D is correct because when $x = 1$, $y = 25$. Choice B is false for a proportional relationship, Choice C should be $y = 25x$, and Choice E is false.
- Choice C is correct.** **(6.NS.8)** The number line shows the relationship: 0 to 4,392 on the bottom corresponds to 0 to 244 on the top. The quotient is the top label, which is 244. Verify: $18 \times 244 = 4,392$.
- Choice A is correct.** **(6.NS.4)** All three are equivalent: $0.5 = 0.50 = 0.500 = \frac{1}{2}$. Trailing zeros do not change the value.
- The correct answer is 600.** **(6.RP.4)** Step 1: Find the unit rate: $240 \div 8 = 30$ widgets per hour. Step 2: In 20 hours: $30 \times 20 = 600$ widgets.
- Choice B is correct.** **(6.NS.6)** GCF of 20 and 16 is 4. So $20 + 16 = 4(5 + 4)$. Only Choice B uses the GCF with whole numbers.



Author's Note

From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 4 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. 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

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

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

THIS BOOK INCLUDES:

4 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations

 **MORE PRACTICE.
GREATER RESULTS.**

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

WHAT YOU'LL 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 with clear explanations and meaningful practice.



Test Confidence

Familiarize 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

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



VISIT [TESTINAR.COM/MATH6](https://www.testinar.com/math6)
FOR MORE PRACTICE TESTS
AND LEARNING RESOURCES



PRACTICE
REGULARLY



STAY
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