

# 9

# Idaho ISAT

GRADE

# 6

MATH

## PRACTICE TESTS

Standards-Aligned Review  
Mixed Practice & Answer Key



### 9 PRINTED TESTS

Realistic practice to build confidence and mastery



### DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



### FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



### BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



**9 PRINTED TESTS**  
**+2 ONLINE TESTS**

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

**PRACTICE TODAY.**  
**SUCCEED TOMORROW.**



PRACTICE



REVIEW



SUCCEED

# 9 Idaho ISAT Grade 6 Math Practice Tests

*Standards-Aligned Mountain-Valley Math Focus for Idaho Standards Achievement Test*

$436 + 289$   $A = 24$

1 2 3 4 5 6 7 8 9

$7 \times 8$   $\frac{5}{6}$

9

complete Idaho practice rounds

Nine complete 40-question Grade 6 practice rounds for ISAT, built for mountain-valley math focus 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, Idaho Math Explorer!

Nine focused rounds using mountain-valley math focus

This book gives you nine full Grade 6 practice tests for ISAT. Each round uses valley fields, mountain roads, and practical problem setup as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

## Your Idaho Practice Promise

Build the setup before the calculation: list facts, choose the operation, and check reasonableness.

Read

Plan

Check

## How to Use This Book

A nine-session routine for mountain-valley math focus

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

**Idaho review rhythm:** Move through one test, harvest the missed skills, and practice those before the next round.



## What Is Inside?

Nine ISAT tests, 360 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.
Tests 7–9	Final stamina rounds 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. Mountain-valley math focus means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!  
For more practice  
& answers

# Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	29
★ Practice Test 3	_____	45
★ Practice Test 4	_____	60
★ Practice Test 5	_____	77
★ Practice Test 6	_____	94
★ Practice Test 7	_____	110
★ Practice Test 8	_____	127
★ Practice Test 9	_____	142
<b>Practice Test Answer Keys</b>	_____	<b>158</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>164</b>

1) What is the value of  $\frac{3x}{2}$  when  $x = 4$ ?

A. 5

C. 8

B. 6

D. 12

2) What is  $1,248 \div 24$ ?

A. 52

C. 42

B. 48

D. 62

3) Compute:  $10.5 - 4.75 + 2.1$

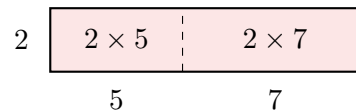
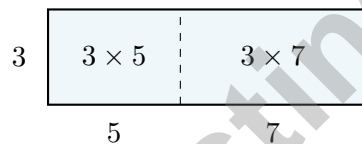
A. 16.35

C. 7.75

B. 8.15

D. 7.85

4) Two area models are shown below. What is the **sum** of both total areas shown (every small rectangle)?



A.  $3(5 + 7) + 2(5 + 7) = 60$

C.  $3 \cdot 5 + 2 \cdot 7 = 29$

B.  $3(5 + 7) - 2(5 + 7) = 12$

D.  $(3 + 2)(5 \times 7) = 175$

5) What is the distance between  $(-4, 0)$  and  $(-4, 9)$ ?

A. 8 units

C. 10 units

B. 9 units

D. 11 units



6) Which pair of numbers are opposites?

A.  $-12$  and  $21$

C.  $6$  and  $-6$

B.  $-9$  and  $-9$

D.  $0$  and  $-0$

7) What is the opposite of  $-15$ ?

A.  $15$

C.  $0$

B.  $-15$

D.  $\frac{1}{15}$

8) In a recipe, the ratio of sugar to flour is  $2 : 5$ . If the recipe uses  $10$  cups of flour, how many cups of sugar are needed?

9) Which decimal is equivalent to  $-\frac{2}{5}$ ?

A.  $-0.2$

C.  $-0.4$

B.  $-0.25$

D.  $-0.5$

10) If a point is in Quadrant II, which of the following must be true?

A. Both coordinates are positive

D. The  $x$ -coordinate is positive and  $y$ -coordinate is negative

B. Both coordinates are negative

C. The  $x$ -coordinate is negative and  $y$ -coordinate is positive



Scan me!  
For more practice  
& answers



- 1) A fitness coach records the number of push-ups done by 11 athletes:

Stem	Leaf
2	3, 5, 8, 9
3	1, 4, 6, 7
4	2, 5, 8

Which interval contains the most data points?

- A. 20–29                       C. Both have equal counts  
 B. 30–39                       D. 40–49
- 2) A student has a scale of 1 cm = 6 m for a model. The actual object is 24 m long. The student calculates the drawing length as  $24 \times 6 = 144$  cm. What is the student's error?
- A. The answer is correct.                       C. The student only changed the unit label to meters.  
 B. The student multiplied instead of dividing; the correct answer is 4 cm.                       D. The student used the wrong scale entirely.

- 3) Compute:  $\frac{6}{7} \div \frac{2}{3}$

- A.  $\frac{12}{14}$                                        C.  $\frac{14}{18}$   
 B.  $\frac{9}{7}$                                          D.  $\frac{4}{7}$



4) What is  $3^3$ ?

A. 9

B. 27

C. 12

D. 30

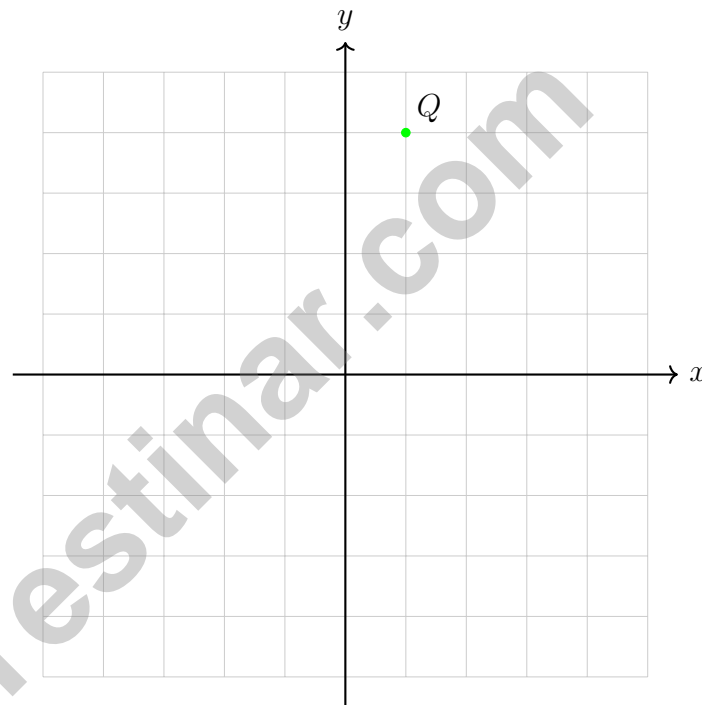
5) Which pair shows numbers with equal absolute values?

A.  $-3$  and  $-5$

B.  $2$  and  $-2$

C.  $4$  and  $-5$

D.  $-6$  and  $-8$



6)

If point  $Q$  is reflected across the  $x$ -axis, what are the new coordinates?

A.  $(1, 4)$

B.  $(-1, -4)$

C.  $(-1, 4)$

D.  $(1, -4)$



Scan me!  
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1) A jewelry maker uses beads in a pattern: 4 red beads for every 6 blue beads. Which statement is NOT correct?

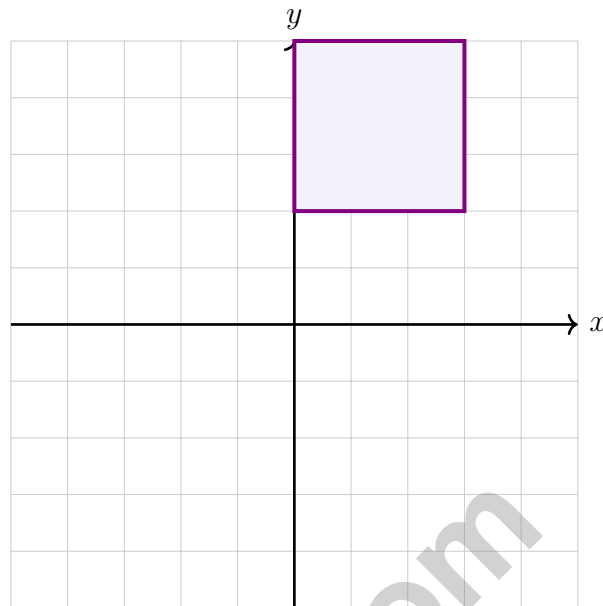
- A. The ratio of red to blue is 4 : 6.       D. For every 3 red beads there are 4 blue beads.
- B. The ratio simplifies to 2 : 3.
- C. For every 2 red beads there are 3 blue beads.

2) The mode is the value that appears most often. In a stem-and-leaf plot, the mode occurs in which stem if we see a repeated leaf?

- A. The stem with the most leaves       D. The stem corresponding to the repeated leaf value
- B. The largest stem
- C. The smallest stem

3) Find the Mean Absolute Deviation for: 6, 8, 10, 12, 14.





4)

A rectangle has vertices at  $(0, 2)$ ,  $(3, 2)$ ,  $(3, 5)$ , and  $(0, 5)$ . After reflection over the  $y$ -axis, where is the image of the vertex  $(3, 2)$ ?

- A.  $(-3, 2)$                        C.  $(0, 2)$   
 B.  $(3, -2)$                        D.  $(3, 2)$

5) A market researcher surveys customers about how much they spend on groceries each month. Why is this a statistical question?

- A. Because money is involved.                       D. Because different customers spend different amounts.  
 B. Because surveys are statistical.  
 C. Because groceries are necessary.



Scan me!  
For more practice  
& answers

**Idaho ISAT Practice Test Answer Keys****How to use this Idaho ISAT 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 mountain-valley math focus
3. rework the problem before reading the full explanation, using this reminder:  
Build the setup before the calculation: list facts, choose the operation, and check reasonableness.

**A calm Idaho correction routine turns every missed item into useful practice. Move through one test, harvest the missed skills, and practice those before the next round.**



## Idaho Practice Test Answers and Explanations

Review the nine printed ISAT tests with grounded, careful, and ready for more growth habits.

### Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(6.EE.A.3)** Substitute  $x = 4$ :  $\frac{3(4)}{2} = \frac{12}{2} = 6$ .
- 2) **Choice A is correct.** **(6.NS.B.2)** Use long division or estimation:  $24 \times 50 = 1,200$ , leaving 48. Then  $48 \div 24 = 2$ , so  $1,248 \div 24 = 52$ .
- 3) **Choice D is correct.** **(6.NS.B.3)** Work left to right:  $10.5 - 4.75 = 5.75$ , then  $5.75 + 2.1 = 7.85$ .
- 4) **Choice A is correct.** **(6.NS.B.4)** Left ribbon:  $3(5 + 7) = 36$ . Right ribbon:  $2(5 + 7) = 24$ . Stack them openly:  $3(5 + 7) + 2(5 + 7) = 60$ . Option B subtracts instead of adds; option C skips half the rectangles; option D wrongly multiplies inside the parentheses.
- 5) **Choice B is correct.** **(6.NS.C.8)** Same  $x$ -coordinate  $(-4)$ :  $|9 - 0| = 9$  units.
- 6) **Choice C is correct.** **(6.NS.C.5)** Opposites are numbers that are the same distance from zero but on opposite sides. 6 is 6 units right of zero, and  $-6$  is 6 units left of zero, making them opposites.
- 7) **Choice A is correct.** **(6.SP.B.4)** The opposite of a negative number is its positive version. The opposite of  $-15$  is 15.
- 8) **The correct answer is 4.** **(6.RP.A.3)** Ratio 2 : 5 with flour = 10 cups: each part is  $10 \div 5 = 2$  cups. Sugar:  $2 \times 2 = 4$  cups.
- 9) **Choice C is correct.** **(6.SP.B.4)**  $\frac{2}{5} = \frac{4}{10} = 0.4$ , so  $-\frac{2}{5} = -0.4$ .
- 10) **Choice C is correct.** **(6.NS.C.8)** By definition, Quadrant II is in the upper left, where  $x < 0$  and  $y > 0$ .
- 11) **The correct answer is 12.** **(6.RP.A.3)** Divide:  $96 \text{ fl oz} \div 8 \text{ fl oz/cup} = 12$  cups.
- 12) **Choice A is correct.** **(6.NS.C.7d)** The most negative value is the deepest.  $-800 < -600 < -450$ , so Sub A at  $-800$  ft is deepest.
- 13) **Choice D is correct.** **(6.EE.A.3)** Combine like terms:  $(7p - 3p) + (2q + 5q) = 4p + 7q$ .
- 14) **Choice D is correct.** **(6.G.A.1)**  $54 = \frac{1}{2} \times b \times 9 \Rightarrow b = 12$  in.
- 15) **Choice C is correct.** **(6.G.A.3)** The base is horizontal from  $(0, 0)$  to  $(6, 0)$ . Length =  $6 - 0 = 6$  units.
- 16) **Choice C is correct.** **(6.G.A.1)** Base:  $10 - 4 = 6$  units. Height:  $5 - 1 = 4$  units. Area =  $\frac{1}{2} \times 6 \times 4 = 12$  square units.
- 17) **Choice C is correct.** **(6.RP.A.1)** Area =  $\pi r^2 \approx 3.14 \times 5^2 = 3.14 \times 25 = 78.5 \text{ m}^2$ .
- 18) **Choice C is correct.** **(6.SP.A.3)** This expects variability across multiple people and requires collecting data. The other questions either have single fixed answers (wheels, temperature at one moment, one coat's color) or are about one person.
- 19) **The correct answer is Coprime numbers have GCF of 1; if one number is a factor of the other, the GCF is the smaller..** **(6.NS.B.4)** Statement A: Coprime (or relatively prime) numbers share only 1 as a common factor (TRUE). Statement B: LCM of 8 and 12 is 24, not 96 (FALSE). Statement C: If 3 divides 12, then  $\text{GCF}(3, 12) = 3$  (TRUE). Statement D: GCF is never larger than LCM (FALSE). Statement E:  $100 = 4 \times 25 = 2^2 \times 5^2$ , not  $2 \times 5^2$  (FALSE).
- 20) **Choice D is correct.** **(6.SP.A.2)** Count frequencies: 5 appears 1 time, 7 appears 3 times, 9 appears 2 times, 12 appears 4 times, 15 appears 1 time. The mode is the most frequent value, 12.
- 21) **Choice A is correct.** **(6.SP.A.2)** Data: 65, 67, 72, 74, 78, 81, 89. With 7 values, the median is the 4th value: 74.
- 22) **Choice B is correct.** **(6.SP.B.4)** The bar for the 21–30 range has a height of 8, which represents the frequency (number of students) in that range.
- 23) **Choice C is correct.** **(6.RP.A.3)** Multiply:  $7 \times 2 = 14$  feet.
- 24) **Choice A is correct.** **(6.NS.A.1)** The correct approach: flip  $\frac{1}{4}$  to get  $\frac{4}{1}$ , then multiply  $\frac{2}{3} \times \frac{4}{1} = \frac{8}{3} = 2\frac{2}{3}$ . The student multiplied by  $\frac{1}{4}$  without inverting it.
- 25) **Choice C is correct.** **(6.EE.A.3)** Gain plus loss:  $8 + (-3) = 5$  dollars gained overall.



A Quiet Word From Your Mentor

---

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 9 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

**What I See in You**

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

**Mentor's note:** on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Mentor

# PRACTICE MORE. ACHIEVE MORE.

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 any test.

With 9 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 math concepts aligned with standards.



### Test Confidence

Get familiar with test formats and improve accuracy.



### 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.



9 PRINTED  
PRACTICE TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS