10 Idaho ISAT

GRADE 6 MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key

10 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

10 PRINTED TESTS
+2 ONLINE TESTS

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

PRACTICE • REVIEW • SUCCEED

10 Idaho ISAT Grade 6 Math Practice Tests

Standards-Aligned Practical, Grounded Reasoning for Idaho Standards Achievement Test

Ten complete 40-question Grade 6 practice rounds for ISAT, with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

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Welcome, Idaho Math Explorer!

Ten steady rounds on a mountain-and-river review trail

This book gives you ten full Grade 6 practice tests for ISAT. Each round uses clear rivers, open fields, and careful math routes 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

Write the important numbers first, then decide the relationship. I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

How to Use This Book

A ten-session routine for practical, grounded reasoning

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Work in a quiet place and answer all 40 questions.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Idaho review rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.

What Is Inside?

Ten ISAT tests, 400 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Warm-up 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	Stamina rounds for mixed review, neat work, and flexible strategy choices.
Test 10	Final Idaho round to show growth across the whole book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Practical, grounded reasoning means recognizing the skill even when the next question changes topic.

Table of Contents

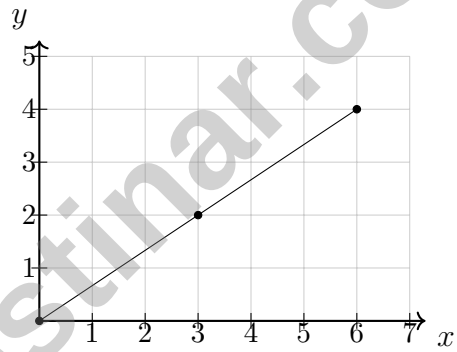
1) Which shows the correct first step when computing $\frac{3}{8} \div \frac{9}{10}$?

☐ A. $\frac{3}{8} \times \frac{9}{10}$
☐ B. $\frac{3}{8} - \frac{10}{9}$
☐ C. $\frac{8}{3} \times \frac{9}{10}$
☐ D. $\frac{3}{8} \times \frac{10}{9}$

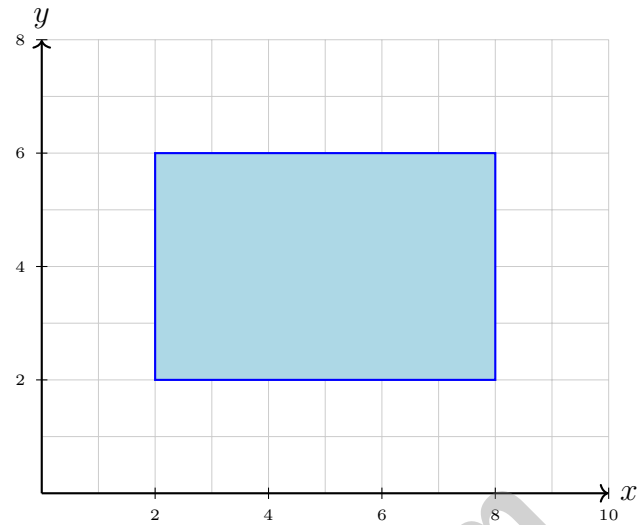
2) A business had a monthly budget of \$8000. They overspent by \$1200. What is the actual spending, and what percent over budget were they?

☐ A. Spent \$9200; 15% over
☐ B. Spent \$9200; 13% over
☐ C. Spent \$6800; 15% under
☐ D. Spent \$9200; 12% over

3) A line on a coordinate plane has the equation $y = \frac{2}{3}x$. Which point lies on this line?



☐ A. $(2, 4)$
☐ B. $(3, 3)$
☐ C. $(6, 4)$
☐ D. $(6, 9)$



4) A rectangle has vertices at $(2, 2)$, $(8, 2)$, $(8, 6)$, and $(2, 6)$. What is its area in square units?

5) Two different scale drawings are made of the same object. Scale A is 1 inch = 5 feet, and Scale B is 1 inch = 10 feet. Which scale makes a larger drawing?

- ☐ A. Scale A (because the scale factor is smaller)
- ☐ B. Scale B (because it goes up to 10 feet)
- ☐ C. Both drawings are the same size
- ☐ D. It depends on the object being drawn

6) A receipt shows three items: \$5.25, \$12.99, and \$8.50. What is the total?

☐ A. \$26.74
☐ B. \$25.74
☐ C. \$27.00
☐ D. \$18.24

7) A jar contains 20 marbles of different colors. The probability of drawing a purple marble is 0.20. How many purple marbles are in the jar?

☐ A. 2
☐ B. 10
☐ C. 5
☐ D. 4

8) A chemistry lab recorded 520 observations. The circle graph shows $\frac{5}{26}$ were anomalies. How many observations were anomalies?

☐ A. 80
☐ B. 90
☐ C. 100
☐ D. 110

9) 

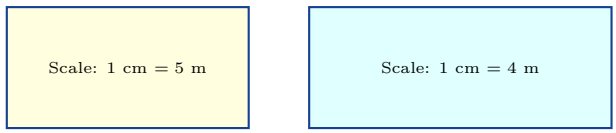
The dots show blue and red counters. What is the ratio of blue to red in fraction form?

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

10) A student claims: "If the ratio of apples to oranges is 7 : 3, then the ratio of oranges to apples must be 3 : 7."
Is this claim correct?

☐ A. No, the ratio cannot be reversed.
☐ B. No, the order does not matter, so both must be 7 : 3.
☐ C. No, the ratio of oranges to apples should be 7 : 3 as well.
☐ D. Yes, when the order is reversed, the parts of the ratio are reversed in the same way.

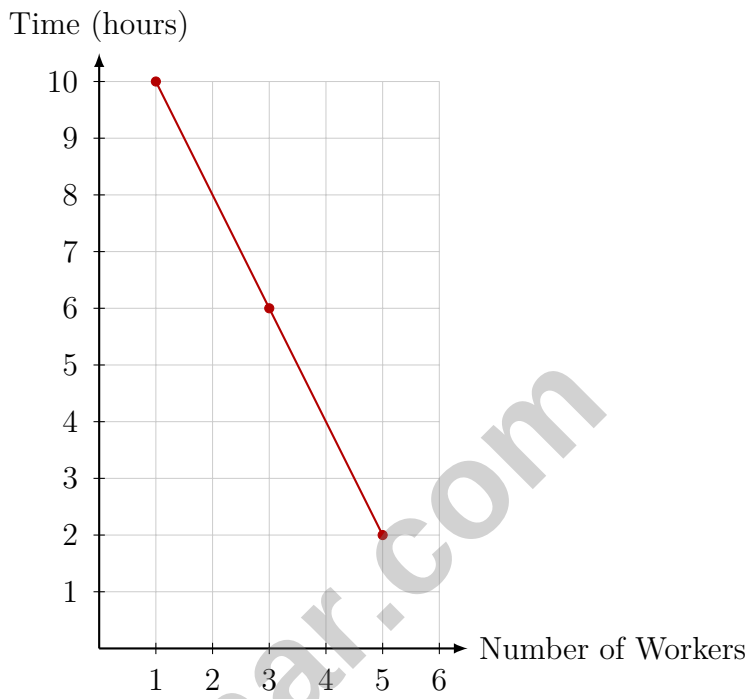
1) Two rectangles are drawn using different scales. Rectangle 1 is 4 cm by 2 cm with scale 1 cm = 5 m. Rectangle 2 is 5 cm by 2 cm with scale 1 cm = 4 m. Which rectangle represents a larger actual area?



Rect 1: 4 × 2 cm Rect 2: 5 × 2 cm

☐ A. Rectangle 1 has a larger actual area.
☐ B. Rectangle 2 has a larger actual area.
☐ C. Both rectangles have the same actual area.
☐ D. There is not enough information to decide.

2) The graph below shows the relationship between the number of workers and the time needed to complete a job.



As the number of workers increases, the time decreases. What is the rate of change?

☐ A. 2 hours per worker
☐ B. −2 hours per worker
☐ C. 0.5 hours per worker
☐ D. −0.5 hours per worker

1) What is the result of $5.4 \div 0.6$?

☐ A. 9
☐ B. 3.24
☐ C. 90
☐ D. 4.8

2) A survey asked 100 students their favorite ice cream flavor. 23 chose vanilla. What percent chose vanilla?

☐ A. 2.3%
☐ B. 23%
☐ C. 77%
☐ D. 230%

3) Jenny's salary increases from $\$40,000$ to $\$44,000$. What is the percent increase?

☐ A. 8%
☐ B. 15%
☐ C. 12%
☐ D. 10%

4) If $\frac{4}{6} = \frac{x}{15}$, what is the value of x?

☐ A. 8
☐ B. 18
☐ C. 12
☐ D. 10

5) Elena is mixing paint. She needs 6 pints of blue paint and 2 quarts of red paint. How many pints total does she need? (Use 1 quart = 2 pints.)

☐ A. 8 pints
☐ B. 10 pints
☐ C. 12 pints
☐ D. 14 pints

6) Find the LCM of 5 and 9.

☐ A. 45
☐ B. 35
☐ C. 40
☐ D. 15

7) Expand $7(4+6)$.

☐ A. $28+42$
☐ B. $28+6$
☐ C. $4+42$
☐ D. 11×7

8) A catering company charges at a constant rate. When 8 people are served, the cost is \$120. If the same ratio is maintained, what is the cost to serve 12 people?

9) Which set of integers includes the number that is 5 units away from -2 on a number line?

☐ A. $\{-7,-2,3\}$
☐ B. $\{-5,0,5\}$
☐ C. $\{-3,2,7\}$
☐ D. $\{-2,0,2\}$

10) If a number is x units to the left of zero on a number line, how can we express its distance from zero?

☐ A. $-x$
☐ B. x
☐ C. 0
☐ D. $2x$

Idaho ISAT Practice Test Answer Keys

How to use this section with a Grade 6 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 turns every missed item into useful practice.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice D is correct.** 6.EE.A.1 Keep the first fraction, invert the second, and multiply.
2) **Choice A is correct.** 6.G.A.4 Actual spending: $\$8000 + \$1200 = \$9200$. Percent over: $\$1200 \div \$8000 = 0.15 = 15\%$.
3) **Choice C is correct.** 6.SP.A.2 For $y = \frac{2}{3}x$, when $x = 6$, $y = \frac{2}{3}(6) = 4$, so $(6, 4)$ is on the line. The other points do not satisfy the equation: $(2, 4)$ would need $y = \frac{4}{3}$, $(3, 3)$ would need $y = 2$, and $(6, 9)$ would need $y = 4$.
4) **The correct answer is** 24. 6.SP.A.2 Width: $8 - 2 = 6$ units. Height: $6 - 2 = 4$ units. Area $= 6 \times 4 = 24$ square units.
5) **Choice A is correct.** 6.SP.B.4 A smaller scale factor (fewer feet per inch) means the drawing must be larger to represent the same object. Scale A represents fewer feet per inch, so the drawing is larger.
6) **Choice A is correct.** 6.SP.B.5 Add: $\$5.25 + \$12.99 + \$8.50 = \$26.74$. Align decimal points for money.
7) **Choice D is correct.** 6.SP.B.4 Number of purple marbles $= 0.20 \times 20 = 4$.
8) **Choice C is correct.** 6.G.A.1 $\frac{5}{26} \times 520 = \frac{2600}{26} = 100$ observations.
9) **Choice D is correct.** 6.NS.C.8 Count blue first and red second: there are 6 blue and 3 red, so the ratio is $\frac{6}{3}$. Divide the numerator and denominator by 3 to get $\frac{2}{1}$, which means there are 2 blue counters for every 1 red.
10) **Choice D is correct.** 6.EE.A.4 Yes. If apples to oranges is $7 : 3$, then reversing the order to oranges to apples also reverses the numbers, giving $3 : 7$.
11) **Choice A is correct.** 6.EE.B.5 Divide sugar by cookies: $\frac{1}{2} \div 12 = \frac{1}{2} \times \frac{1}{12} = \frac{1}{24}$ cup per cookie.
12) **Choice B is correct.** 6.G.A.1 $8 \div 64 = \$0.125$ per ounce, which is 12.5 cents per ounce.
13) **Choice D is correct.** 6.NS.B.3 The unit rate is 15 photos per day. For 5 days: $15 \times 5 = 75$ photos. Verify: $45 \div 3 = 15$ photos/day confirms the constant rate.
14) **Choice A is correct.** 6.EE.A.3 For a proportional relationship through the origin, when x = 0, y = 0. The unit rate is $\frac{12}{3} = 4$, so the equation is $y = 4x$. When x = 0, y = 4(0) = 0.
15) **Choice C is correct.** 6.EE.A.3 $\frac{60}{200} = \frac{30}{100} = 30\%$ (divide both by 2).
16) **Choice C is correct.** 6.EE.B.6 65% of $200 = 0.65 \times 200 = 130$ gallons.
17) **Choice C is correct.** 6.RP.A.3 Unit price: $9 \div 3 = 3$ per notebook. For 7 notebooks: $3 \times 7 = 21$ dollars.
18) **The correct answer is Rectangles and triangles are polygons.** 6.NS.B.4 A is correct: a rectangle with vertices $(0, 0)$, $(4, 0)$, $(4, 3)$, $(0, 3)$ is a polygon on the coordinate plane. B is correct: a triangle with vertices $(1, 2)$, $(5, 2)$, and $(3, 6)$ is a polygon. C, D, and E are incorrect because circles, curves, and ellipses are not polygons—polygons must have only straight sides.
19) **Choice C is correct.** 6.SP.B.4 Reading the double number line: 3 miles corresponds to 15840 feet.
20) **Choice C is correct.** 6.SP.B.4 At \$50 per month: $\frac{\$500}{\$50} = 10$ months.
21) **Choice B is correct.** 6.SP.A.3 Factors of 15: $1, 3, 5, 15$. Factors of 35: $1, 5, 7, 35$. Common factors: $1, 5$. GCF is 5. Distractors: 3 divides 15 only; 7 divides 35 only; 15 is the largest number but not the GCF.
22) **Choice B is correct.** 6.EE.C.9 GCF of 27 and 18 is 9. So $27 + 18 = 9(3 + 2)$. Choice A uses 3 (not the greatest common factor); Choice C includes decimals; Choice D equals 54, not 45.
23) **Choice B is correct.** 6.G.A.3 Below sea level is represented by a negative integer. A depth of 25 meters below sea level is -25 meters.
24) **Choice C is correct.** 6.G.A.1 From -6 to 6 is $6 - (-6) = 6 + 6 = 12$ units apart.
25) **The correct answer is** $(5, 6)$. 6.NS.C.8 If the image after reflecting over the x-axis is $(5, -6)$, then the original point was $(5, 6)$ (reflect back by negating the y-coordinate again).
26) **The correct answer is** 8. 6.SP.A.2 $Q_1 = 4$ and $Q_3 = 12$, so IQR $= 12 - 4 = 8$.
27) **Choice D is correct.** 6.RP.A.1 Point Q is located at the half-tick between -2 and -1, which is $-1\frac{1}{2}$.
28) **Choice B is correct.** 6.NS.B.3 Point A is at $(-1, 2)$ and point B is at $(1, 2)$. The y-coordinate stays the same while the x-coordinate changes sign, which is a reflection across the y-axis.

Hi, Math Champion!

◇ You trained hard! 10 full practice tests is real practice. Your math game is way better now than when you started. ◇

⋆ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works! ⋆

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

PRACTICE MORE. ACHIEVE MORE. SUCCEED!

This **Grade 6 Math Practice Tests** book is designed to help students build strong math skills, deepen their understanding of key concepts, and gain the confidence they need to succeed on any test.

With 10 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, strengthen 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

CONFIDENCE TODAY. SUCCESS 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.

Deepen 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.

10 PRINTED PRACTICE TESTS | **2 ONLINE PRACTICE TESTS** | **DETAILED ANSWER EXPLANATIONS**