

7 Idaho ISAT

Grade 6 MATH

PRACTICE TESTS

7
PRINTED
TESTS

+

2
ONLINE
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 Idaho ISAT Grade 6 Math Practice Tests

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



Seven 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!

Eight focused rounds using mountain-valley math focus

This book gives you seven 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 seven-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?

Eight ISAT 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. Mountain-valley math focus means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



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& answers

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1) Which point is NOT on an axis?

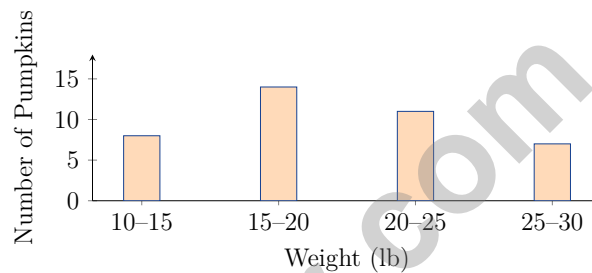
A. (0, 5)

C. (0, 0)

B. (-3, 0)

D. (2, -4)

2) A histogram shows the weight (in pounds) of pumpkins at a farm. The frequency table shows: 10–15 lb: 8 pumpkins; 15–20 lb: 14 pumpkins; 20–25 lb: 11 pumpkins; 25–30 lb: 7 pumpkins. Which range has the least number of pumpkins?



A. 10–15 lb

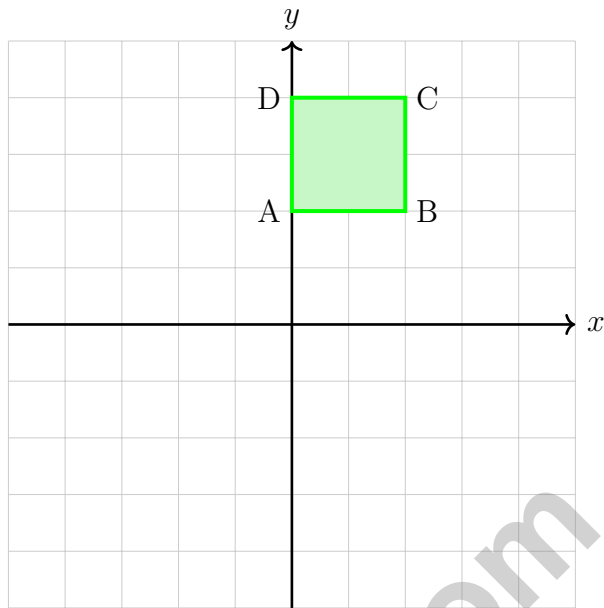
C. 20–25 lb

B. 15–20 lb

D. 25–30 lb

3) A company loses money at a rate of \$500 per month. How much money does the company lose over 6 months?



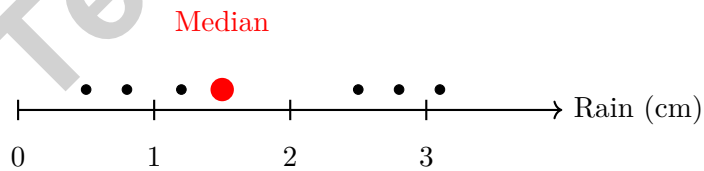


9)

A rectangle with vertices at $A(0, 2)$, $B(2, 2)$, $C(2, 4)$, and $D(0, 4)$ is translated 1 unit right and 2 units down. What are the coordinates of the image of vertex A ?

- A. (1, 0)
- B. (1, 4)
- C. (-1, 0)
- D. (-1, 4)

10) A dot plot shows rainfall (cm) for 7 days: 0.5, 0.8, 1.2, 1.5, 2.5, 2.8, 3.1. Which represents the median?



- A. 0.8
- B. 1.9
- C. 2.5
- D. 1.5



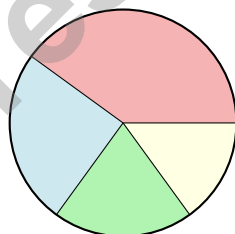
- 1) A frequency table is created from a dot plot. The table shows: Value 2: Frequency 4; Value 3: Frequency 6; Value 4: Frequency 5; Value 5: Frequency 3. How many data points are in this data set?

Value	Frequency
2	4
3	6
4	5
5	3

- A. 15 data points C. 17 data points
 B. 16 data points D. 18 data points
- 2) A recipe uses 1.5 cups of sugar. If you triple the recipe, how much sugar is needed?



- A. 3.5 cups C. 5.0 cups
 B. 4.5 cups D. 4.0 cups
- 3) The pie chart shows Diego's monthly budget allocation (total: \$1200).



- Rent 40%
- Food 25%
- Entertainment 20%
- Savings 15%

How much does Diego allocate to Food?

- A. \$300 C. \$400
 B. \$240 D. \$480

4) What is the GCF of 22 and 33?

A. 2

C. 11

B. 3

D. 22

5) An elevator is at floor 0. It goes up 6 floors, then down 10 floors. At which floor is the elevator now?

A. Floor 6

C. Floor 4

B. Floor -4

D. Floor 16

6) What is $|-5| + |-3| - |2|$?

A. -6

C. 6

B. 0

D. 10

7) In a student club, the ratio of 6th graders to 7th graders is $4 : 6$. If there are 12 sixth graders, how many seventh graders are in the club?

8) A zoom of a number line shows integers from 2 to 3 divided into tenths. Which decimal is closest to 2.6?

A. 2.5

C. 2.7

B. 2.6

D. 2.8

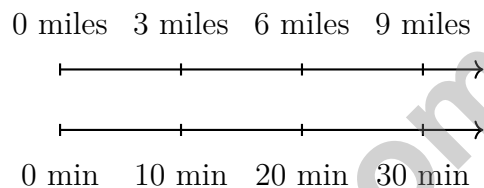


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1) A savings account earns \$15 per month. After 8 months, how much more money is in the account?

- A. \$7 C. \$120
 B. \$23 D. -\$120

2) A runner completes a race at a constant speed. The double number line shows the distance and time.



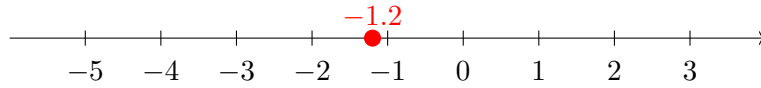
What is the unit rate in miles per minute?

- A. 0.2 mi/min C. 3 mi/min
 B. 0.3 mi/min D. 10 mi/min
- 3) A ribbon is 36 inches long. How many yards is the ribbon? (Use 1 yard = 36 inches.)
- A. 1 yard C. 3 yards
 B. 2 yards D. 12 yards
- 4) In a family budget, the ratio of expenses for Food to Rent is 2 : 5. If Food costs \$300 per month, how much is Rent?
- A. \$600 C. \$1000
 B. \$1200 D. \$750



5) Which number is closest to 0 on a number line?

- A. -2.1 C. 1.3
 B. -0.4 D. 2.8



6)

Which number from the list below is closest to the point shown?

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

7) Which pair of statements both describe the same ratio?

Statement X: The ratio of first part to second part is 6 : 4.

Statement Y: For every 3 units of the first part there are 2 units of the second part.

- A. Yes, they describe the same ratio. C. They cannot be compared.
 B. No, they describe different ratios. D. Only Statement X is a valid ratio.

8) A factory produces 24 widgets in 4 hours. The table shows equivalent production rates. What is the missing number of widgets?

Widgets	Hours
24	4
?	8
72	12

- A. 36 C. 60
 B. 64 D. 48



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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 seven printed ISAT tests with grounded, careful, and ready for more growth habits.

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(6.NS.C.8)** Points on an axis must have at least one coordinate equal to zero. The point $(2, -4)$ has both non-zero coordinates, so it is not on an axis.
- 2) **Choice D is correct.** **(6.SP.B.4)** The bar for the 25–30 lb range has height 7, which is the smallest frequency.
- 3) **The correct answer is $-\$3000$.** **(6.NS.B.3)** Loss of \$500 per month for 6 months: $(-500) \times 6 = -3000$, meaning a loss of \$3000.
- 4) **Choice A is correct.** **(6.NS.B.3)** Total socks = 10. Black socks = 4. Probability = $\frac{4}{10} = 0.4$.
- 5) **Choice A is correct.** **(6.SP.B.4)** In a standard stem-and-leaf plot with single-digit leaves, stem 3 with leaves 1, 2, 4, 5 correctly represents 31, 32, 34, 35.
- 6) **Choice B is correct.** **(6.NS.A.1)** $\frac{7}{16} \times 560 = \frac{3920}{16} = 245$ employees.
- 7) **Choice D is correct.** **(6.RP.A.1)** Pencils are the 3-part amount, and they total 21. Each part is $21 \div 3 = 7$, so pens are 7 parts: $7 \times 7 = 49$.
- 8) **Choice C is correct.** **(6.RP.A.3)** Plan A: $35 \div 500 = 0.07$ per min. Plan B: $50 \div 800 = 0.0625$ per min. Plan C: $60 \div 1000 = 0.06$ per min. Plan C is lowest.
- 9) **Choice A is correct.** **(6.NS.C.8)** Translation: $A(0, 2) \rightarrow A'(0 + 1, 2 - 2) = A'(1, 0)$.
- 10) **Choice D is correct.** **(6.SP.A.2)** With 7 values, the median is the 4th value when ordered: 0.5, 0.8, 1.2, 1.5, 2.5, 2.8, 3.1. Median is 1.5.
- 11) **Choice A is correct.** **(6.SP.A.2)** For 6 values, the median is between positions 3 and 4 (values 8 and 10, median = 9). Lower half: 4, 6, 8. $Q_1 = 6$. Upper half: 10, 12, 14. $Q_3 = 12$.
- 12) **Choice D is correct.** **(6.RP.A.1)** If every data value is identical, then min, Q_1 , median, Q_3 , and max are all equal. In this edge case, Q_1 is not less than the median; they are equal.
- 13) **Choice B is correct.** **(6.SP.B.5)** When the mean exceeds the median, high outliers are typically present, skewing the distribution right.
- 14) **Choice B is correct.** **(6.EE.A.4)** The constant 6 stands alone. The coefficient of the variable j is the number multiplied by j , which is 4.
- 15) **The correct answer is 12.** **(6.EE.A.3)** Compute $-6 + 18 = 12$.
- 16) **Choice A is correct.** **(6.EE.A.3)** Substitute $m = 2$: $5(2) - 7 = 10 - 7 = 3$.
- 17) **Choice C is correct.** **(6.EE.B.6)** “3 times as many” means multiply m by 3.
- 18) **Choice C is correct.** **(6.EE.B.5)** Multiply both sides by 9: $x = 3 \times 9 = 27$.
- 19) **Choice D is correct.** **(6.SP.B.4)** A closed circle at 6 (includes 6) with arrow pointing left (toward smaller values) represents $x \leq 6$.
- 20) **Choice B is correct.** **(6.EE.C.9)** Each output is 7 times the input: $1 \rightarrow 7, 2 \rightarrow 14, 3 \rightarrow 21, 4 \rightarrow 28$. The equation is $y = 7x$.
- 21) **Choice A is correct.** **(6.SP.A.2)** The median is the middle value and is not affected by how extreme outliers are. The mean is pulled by outliers; range includes them; mode may or may not be.
- 22) **The correct answer is A: length $|4 - 0| = 4$, width $|6 - 0| = 6$, perimeter $2(4 + 6) = 20$ units. C: side length 5, perimeter $4 \times 5 = 20$ units..** **(6.NS.C.8)** A: perimeter $2(4 + 6) = 20$ ✓. B: perimeter $2(5 + 3) = 16$. C: perimeter $4 \times 5 = 20$ ✓. D: perimeter $2(6 + 2) = 16$. E: perimeter $2(3 + 4) = 14$.
- 23) **Choice A is correct.** **(6.RP.A.1)** Divide weight by time: $288 \div 4 = 72$ pounds per hour.
- 24) **Choice A is correct.** **(6.RP.A.2)** $5 \div 80 = 0.0625$ pounds per cookie.
- 25) **Choice B is correct.** **(6.NS.C.7d)** Sales tax: 6% of \$10.50 = $0.06 \times 10.50 = \$0.63$.
- 26) **Choice A is correct.** **(6.SP.B.4)** $-1.2 = -\frac{12}{10} = -\frac{6}{5}$.



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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 7 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

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