

9

Utah RISE

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



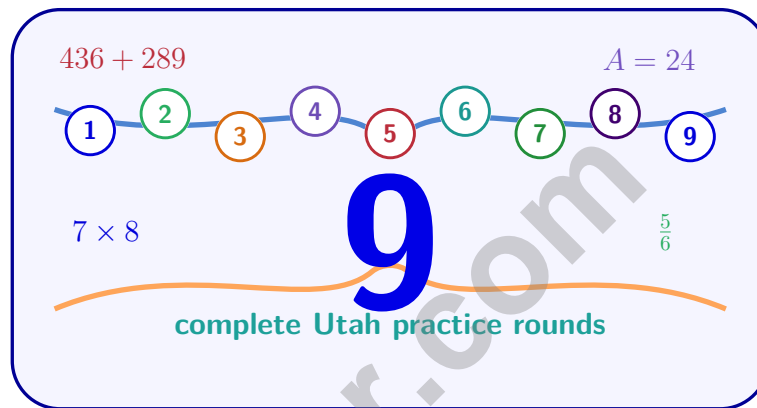
REVIEW



SUCCEED

9 Utah RISE Grade 6 Math Practice Tests

Standards-Aligned Canyon-Clear Review for Readiness Improvement Success Empowerment



Nine complete 40-question Grade 6 practice rounds for RISE, built for canyon-clear review 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, Utah Math Explorer!

Nine focused rounds using canyon-clear review

This book gives you nine full Grade 6 practice tests for RISE. Each round uses red-rock canyons, mountain roads, and clean strategy 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 Utah Practice Promise

Follow the layers: understand the question, choose a representation, and check the answer.

Read

Plan

Check

How to Use This Book

A nine-session routine for canyon-clear review

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.

Utah review rhythm: Finish a round, review the rough edges, and sharpen one tool for the next test.



What Is Inside?

Nine RISE 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. Canyon-clear review 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) The speed limit on the highway is no more than 65 miles per hour. Which inequality represents the allowed speed s ?

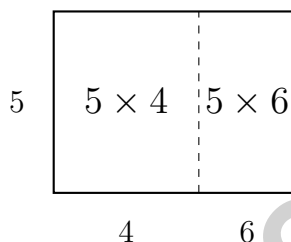
A. $s > 65$

C. $s \geq 65$

B. $s \leq 65$

D. $s = 65$

2) The area model below represents a factored sum. What is the factored form?



A. $5(4 + 6) = 50$

C. $(4 + 6)(5) = 50$

B. $4(5 + 6) = 44$

D. $5 \times 10 = 50$

3) A student wrote: "If $|-12| = 12$, then $|12| = -12$." Is this reasoning correct?

 A. Yes, they are opposite results D. No, absolute value is always non-negative; $|12| = 12$ B. Cannot be determined C. Yes, one is positive and one is negative

4) On a number line, what is the position of the point halfway between -2 and 2 ?

A. -2

C. 1

B. 0

D. 2



5) A garden is drawn as 8 cm long on a scale drawing. The actual garden is 16 meters long. What is the scale of the drawing in centimeters to meters?

A. 1 cm = 1 m

C. 2 cm = 1 m

B. 1 cm = 2 m

D. 8 cm = 16 m

6) Which is a multiple of both 4 and 6?

A. 8

C. 18

B. 12

D. 10

7) Which integer is closest to zero on a number line?

A. -5

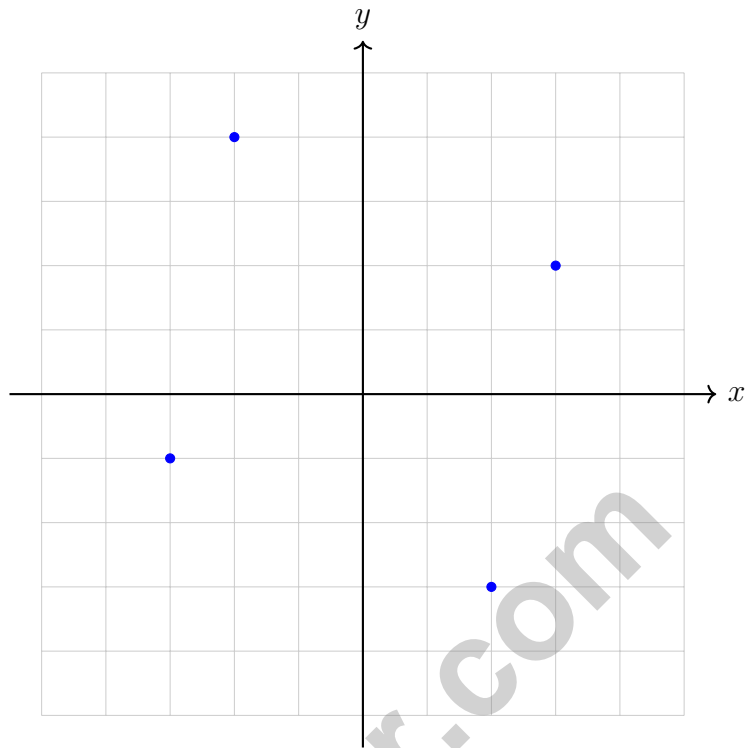
C. 4

B. -8

D. -1



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& answers



8)

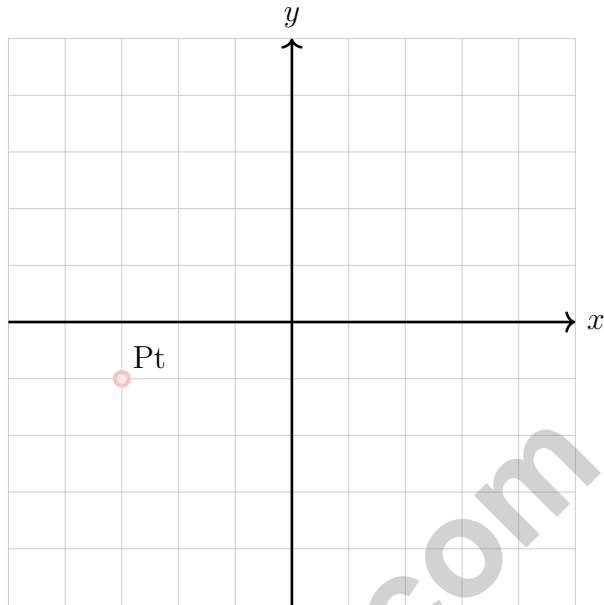
Which point is in Quadrant II?

- A. (3, 2)
- B. (-2, 4)
- C. (-3, -1)
- D. (2, -3)

9) Compare -3.5 and -3.75 . Which symbol makes the statement true?

$$-3.5 \square -3.75$$

- A. $<$
- B. $>$
- C. $=$
- D. Cannot determine



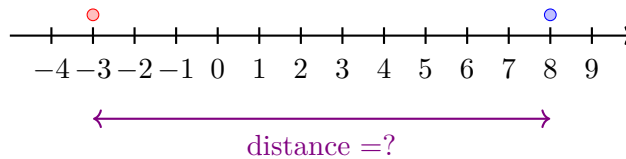
1)

If a point at $(-3, -1)$ is reflected over the x -axis, which of the following is the image?

- A. $(-3, 1)$
- C. $(3, 1)$
- B. $(-3, -1)$
- D. $(3, -1)$

2) A jar contains red and blue marbles. The ratio of red to blue is $3 : 5$. If there are 18 red marbles, how many blue marbles are in the jar?

- 1) On a number line, what is the distance from -3 to 8 ?



- A. 5 units
- B. -5 units
- C. -11 units
- D. 11 units
- 2) Create a stem-and-leaf plot from the data: 34, 38, 42, 45, 41, 39, 44. Which statement is true?
- A. Stem 3 has 2 leaves
- B. Stem 4 has 3 leaves
- C. The minimum is 34
- D. All of the above
- 3) A teacher asks: "How many books did each student read last month?" What is the sample in this scenario?
- A. All students in the entire state
- B. The students in the class who answered the question
- C. The number of books
- D. All books in the library
- 4) A gym tracks daily attendance. The range is 45 people. If the minimum attendance is 30, what is the maximum?
- A. 45
- B. 60
- C. 75
- D. 105



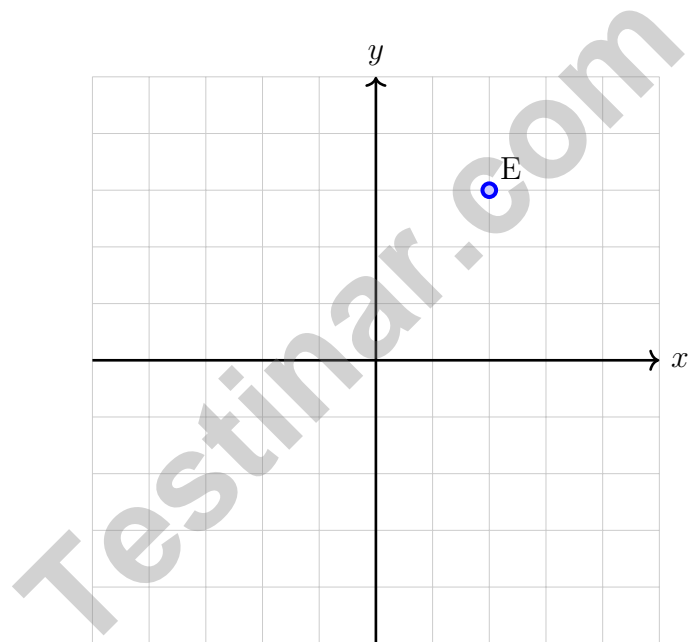
Scan me!
For more practice
& answers

5) A box plot is constructed for the data set: 5, 8, 10, 12, 15, 18, 22. The box extends from 8 to 18. This means:

- A. The range is 10.
- B. $Q1 = 8$ and $Q3 = 18$.
- C. The mean is 12.
- D. All values are between 8 and 18.

6) A restaurant offers a choice of 3 soups, 4 main dishes, and 2 desserts. How many different meal combinations are possible if you choose one item from each category?

- A. 9
- B. 12
- C. 24
- D. 36



7)

Point E is located at $(2, 3)$. If it is translated 3 units to the right and 2 units down, what are the coordinates of its image E' ?

Utah RISE Practice Test Answer Keys**How to use this Utah RISE 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 canyon-clear review
3. rework the problem before reading the full explanation, using this reminder:
Follow the layers: understand the question, choose a representation, and check the answer.

A calm Utah correction routine turns every missed item into useful practice. Finish a round, review the rough edges, and sharpen one tool for the next test.



Utah Practice Test Answers and Explanations

Review the nine printed RISE tests with clear, balanced, and ready for the next canyon habits.

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **6.EE.8** “No more than” means at most 65, which allows 65 and anything less: $s \leq 65$.
- 2) **Choice A is correct.** **6.NS.4** The rectangle shows a common factor of 5 with widths 4 and 6. Factor first: $5(4 + 6)$ totals 50. Choice B flips roles (height 5 splits differently), while D skips the inner sum.
- 3) **Choice D is correct.** **6.SP.4** Error analysis: absolute value of any number (positive or negative) is always non-negative. $|12| = 12$, not -12 .
- 4) **Choice B is correct.** **6.SP.4** The midpoint between -2 and 2 is found by taking the average: $\frac{-2+2}{2} = 0$.
- 5) **Choice B is correct.** **6.RP.3** Divide: $16 \text{ m} \div 8 \text{ cm} = 2 \text{ m per cm}$. Scale is $1 \text{ cm} = 2 \text{ m}$.
- 6) **Choice B is correct.** **6.NS.4** $12 = 4 \times 3$ and $12 = 6 \times 2$, so 12 is divisible by both 4 and 6. Option A is a multiple of 4 but not 6; C is a multiple of 6 but not 4; D is neither.
- 7) **Choice D is correct.** **6.NS.5** Distance from zero determines how close a number is. $|-1| = 1$, which is the smallest distance among the choices. Numbers closer to zero have smaller absolute values.
- 8) **Choice B is correct.** **6.NS.8** From the graph, the point in Quadrant II (upper left) is $(-2, 4)$, which has a negative x -coordinate and positive y -coordinate.
- 9) **Choice B is correct.** **6.NS.7** -3.5 is closer to zero than -3.75 , so -3.5 is greater. More negative means smaller.
- 10) **Choice C is correct.** **6.NS.8** Same y -coordinate (2): $|7 - 1| = 6$ units.
- 11) **Choice A is correct.** **6.EE.3** Distribute: $2(5x - 4) = 2 \cdot 5x - 2 \cdot 4 = 10x - 8$.
- 12) **The correct answer is 2,500.** **6.RP.3** Multiply by the conversion factor: $2.5 \text{ liters} \times 1000 \text{ mL/liter} = 2500 \text{ mL}$.
- 13) **Choice A is correct.** **6.EE.6** Hourly cost is 25 per hour ($25h$). Add the flat service fee of \$50: $\text{total} = 25h + 50$.
- 14) **Choice D is correct.** **6.G.1** $77 = \frac{1}{2} \times 14 \times h \Rightarrow h = 11 \text{ ft}$.
- 15) **Choice D is correct.** **6.G.1** Width: $8 - 1 = 7$ units. Height: $5 - 1 = 4$ units. Area = $7 \times 4 = 28$ square units.
- 16) **Choice B is correct.** **6.SP.4** A left-skewed distribution has a tail extending toward lower values. The peak is on the right (at 5 pets), with fewer data points on the left, meaning most families have more pets and fewer have very few pets.
- 17) **Choice D is correct.** **6.SP.4** The middle 50% is the IQR: $Q_3 - Q_1 = 20 - 8 = 12$.
- 18) **Choice B is correct.** **6.SP.4** Counting the dots: 0 books (1 student), 1 book (4 students), 2 books (5 students), 3 books (3 students), 4 books (2 students), 5 books (1 student). Total = 16 students. The median is the average of the 8th and 9th values. Listing in order: 0, 1, 1, 1, 1, 2, 2, 2, 2, 3, 3, 3, 4, 4, 5. The 8th value is 2 and the 9th value is 2, so the median is 2.
- 19) **Choice A is correct.** **6.EE.9** Food budget is 20% of \$80: $0.20 \times 80 = \$16$.
- 20) **The correct answer is The graph is a straight line through the origin, and the ratio of y to x is always constant.** **6.EE.9** Statements A and B correctly describe proportional relationships. C is wrong because b must equal 0 for proportionality. D is wrong because proportional equations have the form $y = kx$, not $y = k/x$. E is wrong because a proportional relationship must start at the origin.
- 21) **Choice B is correct.** **6.NS.3** Multiply: $1.5 \times 3 = 4.5$ cups of sugar.
- 22) **Choice C is correct.** **6.NS.3** The distance from -8 to 6 is $6 - (-8) = 6 + 8 = 14$ units.
- 23) **Choice B is correct.** **6.NS.3** Negative times negative is positive: $(-2) \times (-11) = 22$.
- 24) **Choice B is correct.** **6.EE.4** In option B, the term $-2m$ has coefficient -2 . Other options: A has no -2 , C has no negative terms, D has -6 (not -2).
- 25) **Choice D is correct.** **6.EE.3** Substitute $b = 6$ and $h = 8$: $A = \frac{1}{2}(6)(8) = \frac{48}{2} = 24$ square units.
- 26) **Choice A is correct.** **6.EE.5** Divide both sides by 3: $x = 18 \div 3 = 6$.
- 27) **Choice D is correct.** **6.EE.8** A closed (filled) circle shows that the boundary value is included in the solution set, corresponding to \leq or \geq inequalities.



Inventor's Workshop Note

Hi, Math Inventor!

◇ 9 practice tests. 9 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

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