

10

Utah RISE

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



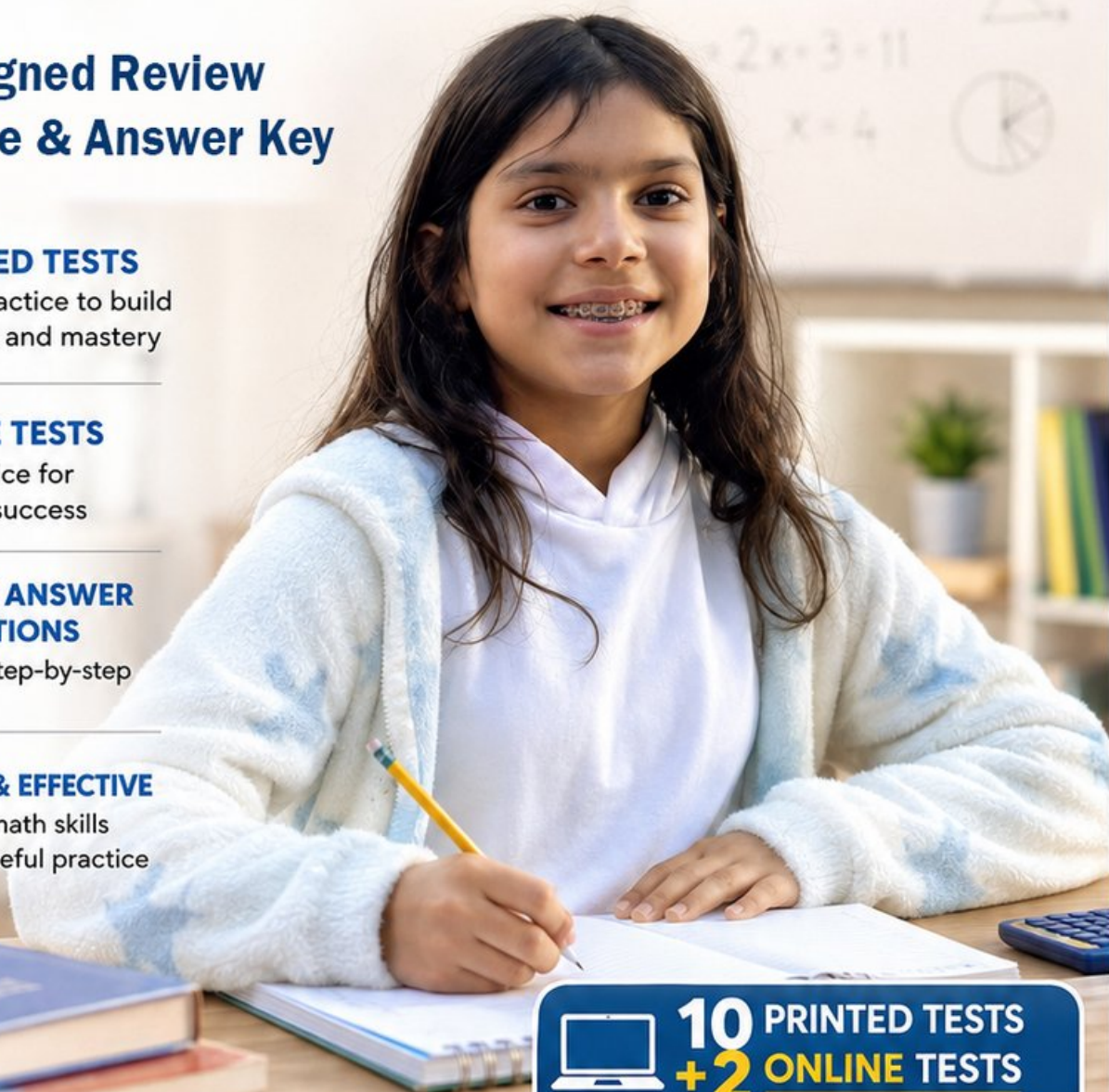
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



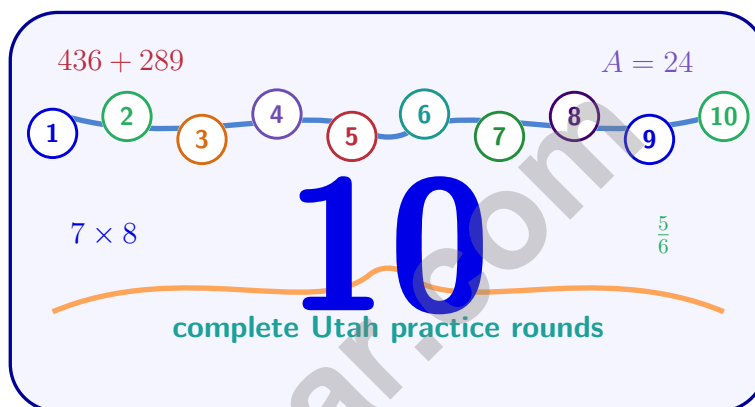
10 PRINTED TESTS
+ 2 ONLINE TESTS

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

PRACTICE • REVIEW • SUCCEED

10 Utah RISE Grade 6 Math Practice Tests

*Standards-Aligned Structured Canyon Thinking for Readiness Improvement Success
Empowerment*



Ten complete 40-question Grade 6 practice rounds for RISE, 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!

Ten steady rounds on a red-rock review trail

This book gives you ten full Grade 6 practice tests for RISE. Each round uses canyon arches, mountain lines, and exact math 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

Let the shape of the problem guide the strategy. I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for structured canyon thinking

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.

Utah 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 RISE 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 Utah 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. Structured canyon thinking means recognizing the skill even when the next question changes topic.



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8) A fitness center surveyed 420 members. The circle graph shows $33\frac{1}{3}\%$ have annual memberships. How many have annual memberships?

- A. 140 C. 100
 B. 120 D. 160

9) A school's enrollment is divided between elementary and middle school in a ratio of 7 : 5. If the middle school has 250 students, how many students are in elementary school?

- A. 1000 students C. 500 students
 B. 175 students D. 350 students

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

11) A recipe says: "For every 2 cups of flour there are 3 cups of sugar." Write this as a simplified numerical ratio of flour to sugar.

- A. 2 : 3 C. 2 : 5
 B. 3 : 2 D. 5 : 1

12)

Cups of Juice	1	2	3	4
Cost (\$)	2.50	5.00	7.50	10.00

What is the unit rate in dollars per cup?

- A. \$1.50 per cup C. \$2.50 per cup
 B. \$2.00 per cup D. \$5.00 per cup



1) Which fraction is equivalent to -0.5 on a number line?

A. $-\frac{1}{4}$
 B. $-\frac{3}{4}$

C. $-\frac{2}{3}$
 D. $-\frac{1}{2}$

2) After simplifying $8y + 3 - 2y + 5y - 1$, what is the coefficient of y ?

3) The table shows an input-output relationship.

Input (x)	1	2	3	4
Output (y)	7	14	21	28

Which equation represents this relationship?

A. $y = x + 6$

C. $y = x + 7$

B. $y = 7x$

D. $y = 14x$

4) A rectangular aquarium has volume 50 liters, width $\frac{5}{2}$ dm, and height 4 dm. Find the length.

A. 2 dm

C. 10 dm

B. 20 dm

D. 5 dm

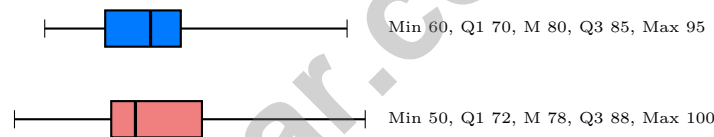


5) Consider these two questions:

Question A	Question B
What is the weight of my dog?	What are the weights of dogs in my neighborhood?

Which statement is correct?

- A. Both are statistical.
 - B. Question A is statistical; Question B is not.
 - C. Question A is non-statistical; Question B is statistical.
 - D. Neither is statistical.
- 6) Two box plots show test scores. Which class has more variability in the upper half (above the median)?



- A. Class A ($Q3 - \text{Median} = 5$)
 - B. Class B ($Q3 - \text{Median} = 10$)
 - C. Both have equal variability
 - D. Cannot be determined from box plots
- 7) Ice must stay below 32°F . What is the greatest whole-number temperature below 32?



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- 1) A pizza is cut into slices that are $\frac{1}{8}$ of the whole pizza. If there are 4 slices, what fraction of the pizza is that?

Which expression matches this scenario?

A. $4 \div \frac{1}{8}$

B. $\frac{1}{8} \div 4$

C. $4 \times \frac{1}{8}$

D. $\frac{1}{8} + 4$

- 2) If 42 out of 150 people choose option A, what is the closest percent?

A. 28%

B. 30%

C. 35%

D. 42%

3)

Item	Original Price	Discount
Shirt	\$50	10%
Pants	\$80	15%

What is the discount amount on the pants?

A. \$10

B. \$20

C. \$15

D. \$12

- 4) Maria buys $\frac{1}{2}$ kilogram of almonds for \$6. What is the unit price per kilogram?

A. \$3

B. \$6

C. \$12

D. \$18



5) A distance is 45 meters. How many kilometers is this? (Use 1 kilometer = 1000 meters.)

A. 0.045 km

C. 4.5 km

B. 0.45 km

D. 45,000 km

6) A school is organizing sports equipment. They have 16 soccer balls and 24 basketballs. They want to distribute them equally into bins with no equipment left over. What is the maximum number of bins needed?

A. 4 bins

C. 16 bins

B. 40 bins

D. 8 bins

7) A graph shows the relationship between the amount of flour (in cups) and the number of muffins baked. The point (2, 24) is on the line. If the ratio is constant and starts at the origin, how many muffins can be made with 5 cups of flour?



8) What is the GCF of 10 and 15?

A. 2

C. 5

B. 3

D. 10

9) 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



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Utah RISE 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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(6.EE.4)** If 2 cups of flour go with 3 eggs, then 6 eggs is twice as many, so you need $2 \times 2 = 4$ cups of flour.
- 2) **Choice B is correct.** **(6.NS.8)** For a proportional relationship, the ratio cost/people must be constant: $5/1 = 10/2 = 5$. There is no one-time starting fee; each person simply adds another \$5 to the total.
- 3) **The correct answer is 200.96.** **(6.SP.4)** Area = $\pi r^2 \approx 3.14 \times 8^2 = 3.14 \times 64 = 200.96 \text{ ft}^2$.
- 4) **Choice D is correct.** **(6.SP.5)** If 15% of salary is \$180, then salary = $\$180 \div 0.15 = \1200 .
- 5) **Choice C is correct.** **(6.SP.2)** Multiply the model height by the scale: $10 \text{ cm} \times 0.8 \text{ m/cm} = 8 \text{ m}$.
- 6) **Choice A is correct.** **(6.SP.4)** Compare the unit prices. The 5-pack costs $12.50 \div 5 = \$2.50$ per pack, while the 8-pack costs $19.20 \div 8 = \$2.40$ per pack. The lower unit price is the better deal.
- 7) **Choice C is correct.** **(6.NS.3)** Distance = $\frac{3}{4} - (-\frac{1}{4}) = \frac{3}{4} + \frac{1}{4} = \frac{4}{4} = 1$.
- 8) **Choice A is correct.** **(6.EE.5)** $33\frac{1}{3}\%$ of 420 is $\frac{1}{3} \times 420 = 140$ members.
- 9) **Choice D is correct.** **(6.EE.8)** Middle school is the 5-part amount, and it equals 250. Each part is $250 \div 5 = 50$, so elementary school has $7 \times 50 = 350$ students.
- 10) **The correct answer is 2.4.** **(6.G.1)** Mean = $(6 + 8 + 10 + 12 + 14)/5 = 10$. Deviations: $|6 - 10| = 4$, $|8 - 10| = 2$, $|10 - 10| = 0$, $|12 - 10| = 2$, $|14 - 10| = 4$. MAD = $(4 + 2 + 0 + 2 + 4)/5 = 2.4$.
- 11) **Choice A is correct.** **(6.SP.3)** The phrase gives flour first and sugar second. So “for every 2 cups of flour there are 3 cups of sugar” translates directly to 2 : 3.
- 12) **Choice C is correct.** **(6.NS.8)** Divide cost by cups: $2.50 \div 1 = 2.50$ dollars per cup.
- 13) **Choice B is correct.** **(6.EE.1)** Every 4 pancakes require 1 cup of milk, so 12 pancakes require $12 \div 4 = 3$ cups.
- 14) **Choice C is correct.** **(6.EE.3)** The unit rate is $\frac{240 \text{ pages}}{4 \text{ minutes}} = 60$ pages per minute. When the x-value is 1 minute, the y-value is 60 pages.
- 15) **Choice C is correct.** **(6.EE.3)** $\frac{60}{200} = \frac{30}{100} = 30\%$ (divide both by 2).
- 16) **Choice C is correct.** **(6.G.1)** Percent increase is $\frac{75000}{500000} = \frac{75}{500} = \frac{3}{20} = 0.15 = 15\%$.
- 17) **Choice C is correct.** **(6.EE.3)** At a scale of 1 : 50, the real object is 50 times larger. $8 \times 50 = 400$ inches.
- 18) **Choice A is correct.** **(6.EE.8)** Divide: $36 \div 36 = 1$ yard.
- 19) **Choice C is correct.** **(6.G.2)** Discount: 25% of \$80 = \$20. Sale price: $\$80 - \$20 = \$60$.
- 20) **The correct answer is T-shaped and cross-shaped nets are valid cube nets.** **(6.RP.3)** Both T and C (cross) are well-known valid nets for a cube. B (a straight line) will overlap when folded. D (L-shape) depends on exact configuration but standard L-shapes can overlap. E (5 + 1 corner) can also lead to overlap. A and C are the two most reliable valid nets.
- 21) **Choice A is correct.** **(6.G.4)** $7,600 \div 25 = 304$. Verify: $25 \times 304 = 7,600$.
- 22) **Choice B is correct.** **(6.G.1)** Work left to right: $8.9 - 3.4 = 5.5$, then $5.5 - 1.2 = 4.3$.
- 23) **Choice B is correct.** **(6.SP.2)** $84 = 4 \times 21 = (2 \times 2) \times (3 \times 7) = 2^2 \times 3 \times 7$. Options A, C, and D contain composite numbers.
- 24) **Choice C is correct.** **(6.SP.2)** Absolute value is the distance from zero. Both 7 and -7 are 7 units away from zero, so $|7| = |-7| = 7$.
- 25) **Choice C is correct.** **(6.SP.2)** Opposite numbers: -3 and 3 . Their absolute values: $|-3| + |3| = 3 + 3 = 6$.
- 26) **Choice A is correct.** **(6.SP.4)** The boundary between Quadrants III and IV is the negative x -axis, where all points have $y = 0$ and $x < 0$.
- 27) **The correct answer is 12.** **(6.NS.3)** The absolute deviations are 23, 8, 2, 12, 17. Their sum is 60, and $60 \div 5 = 12$.
- 28) **Choice B is correct.** **(6.NS.1)** All negatives come before zero, and all zeros come before positives. Among negatives, $-0.5 < -0.2$. Among positives, $0.3 < 0.8$.
- 29) **Choice B is correct.** **(6.EE.9)** Same x -coordinate (2): $|3 - (-2)| = |3 + 2| = 5$ units.
- 30) **Choice C is correct.** **(6.SP.1)** Starting floor: -8 . Rising 15 floors: $-8 + 15 = 7$.



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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.



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DETAILED ANSWER
EXPLANATIONS