

4 Utah RISE

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

**PRINTED
TESTS**



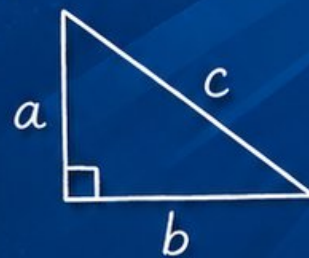
2

**ONLINE
TESTS**



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



**USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.**

4 Utah RISE Grade 6 Math Practice Tests

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



Four 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!

Four focused rounds using canyon-clear review

This book gives you four 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 four-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?

Four RISE tests, 160 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
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.



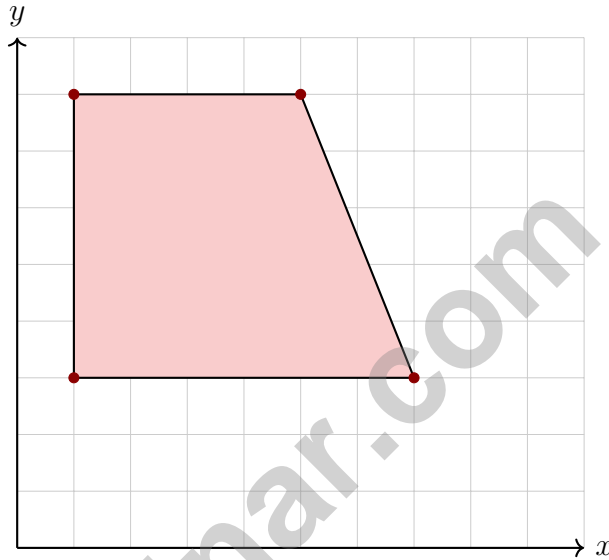
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& answers

Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	29
★ Practice Test 3	_____	46
★ Practice Test 4	_____	60
Practice Test Answer Keys	_____	78
Practice Test Answers and Explanations	_____	81

1) Compare -0.2 and -0.02 . Which is greater?

- A. -0.2
 C. They are equal
 B. Cannot compare
 D. -0.02

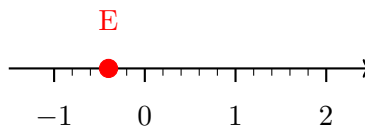


2)

What is the length of the top side?

- A. 4 units
 C. 6 units
 B. 5 units
 D. 7 units

3) The number line below has tick marks at fifths. What is the coordinate of point E?



- A. $-\frac{3}{5}$
 C. $-\frac{1}{5}$
 B. $\frac{1}{5}$
 D. $-\frac{2}{5}$



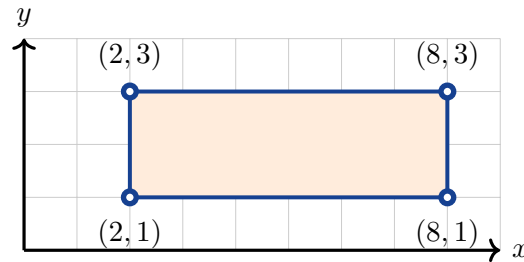
4) What is the reflection of $(-4, -5)$ across the x -axis?

A. $(4, 5)$

C. $(4, -5)$

B. $(-4, 5)$

D. $(-4, -5)$



5)

What is the height (vertical length) of the rectangle with vertices at $(2, 1)$, $(8, 1)$, $(8, 3)$, and $(2, 3)$?

A. 2 units

C. 6 units

B. 4 units

D. 8 units

6) A thermometer shows -6°F . The temperature rises by 14°F . What is the new temperature?

A. 8°F

C. -20°F

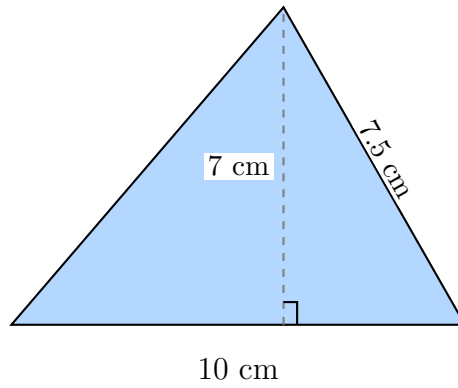
B. -8°F

D. 20°F



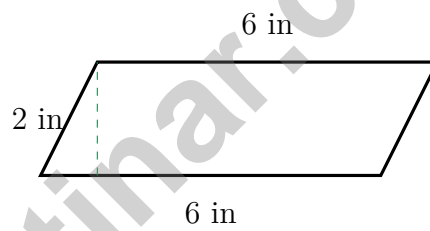
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7) Identify the height in the triangle shown. The height must be perpendicular to the base.



- A. 10 cm
- B. 7.5 cm

- C. 7 cm
- D. 3.5 cm



8)

What is the area of the parallelogram?

- A. 8 in^2
- B. 12 in^2

- C. 16 in^2
- D. 24 in^2



- 1) If a point has coordinates (p, q) where $p > 0$ and $q < 0$, in which quadrant(s) could it be located?
- A. Quadrant I or III C. Quadrant I only
 B. Quadrant II or IV D. Quadrant IV only
- 2) A circle has a diameter of 16 inches. Using $\pi \approx \frac{22}{7}$, find the approximate area.



- 3) A survey asks: “How many hours did you spend reading last week?”
What is the population for this question?
- A. All the people whose reading time is being studied C. Books in the library
 B. Hours of the day D. The number 7
- 4) A teacher gives two quizzes to a class. Quiz 1 has a five-number summary: min = 60, $Q_1 = 75$, median = 82, $Q_3 = 88$, max = 95. Quiz 2 has: min = 65, $Q_1 = 78$, median = 82, $Q_3 = 85$, max = 92. Based on the IQR, which quiz had more consistent student performance in the middle 50%?
- A. Quiz 1 had more consistent performance. C. Both quizzes had the same consistency.
 B. Consistency cannot be determined from the five-number summary. D. Quiz 2 had more consistent performance.



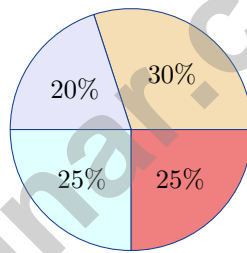
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5) A box plot for Dataset X shows $Q1 = 20$, median = 25, $Q3 = 35$. A box plot for Dataset Y shows $Q1 = 22$, median = 26, $Q3 = 32$. Which statement is true?

- A. Dataset X has a larger interquartile range.
- B. Dataset Y has a larger interquartile range.
- C. Both have the same interquartile range.
- D. The IQR cannot be compared.

6) A box of candies has 30 pieces: 10 red, 8 green, 7 yellow, and 5 blue. If one piece is selected at random, what is the probability it is yellow?

- A. $\frac{1}{6}$
- B. $\frac{2}{5}$
- C. $\frac{1}{3}$
- D. $\frac{7}{30}$



7)

What is the central angle for the 20% section in this circle graph?

- A. 54°
- B. 90°
- C. 72°
- D. 108°

8) Calculate the mean of the following temperatures: 72°F , 68°F , 75°F , 71°F , 74°F .



1) Convert the decimal 0.006 to a percent.

A. 0.6%

C. 60%

B. 6%

D. 600%

2) Marcus earns \$250 per week. He wants to save 20% of his earnings. How much will he save in one week?

A. \$20

C. \$70

B. \$100

D. \$50

3) A student buys snacks for \$3.45, \$2.20, and \$4.85. What is the total cost?

A. \$10.50

C. \$10.40

B. \$9.65

D. \$11.50

4) What is the least common multiple (LCM) of 6 and 8?

A. 24

C. 14

B. 18

D. 48

5) The table shows $h = 2, 4, 6$ and $s = 8, 16, 24$. What is the constant of proportionality?



6) Expand $6(2 + 9)$.

A. $12 + 54$

B. $12 + 9$

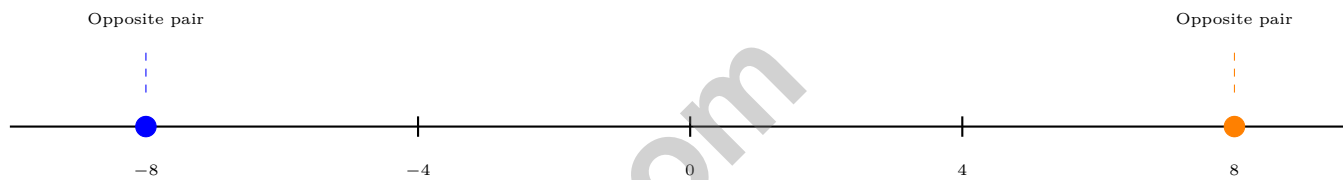
C. $6 + 18$

D. 66

7) Which situation is best represented by the integer -8 ?

 A. A temperature rise of 8°F B. A bank deposit of \$8 C. A debt of \$8 D. An elevation 8 feet above sea level

8)



Two numbers shown are opposites. What is $|-8| + |8|$?

A. 0

B. 8

C. -16

D. 16

9) On a number line, four points are labeled. Point W is at $-\frac{5}{4}$, point K is at -0.75 , point J is at -0.25 , and point L is at $\frac{1}{4}$. Which point is farthest to the left?

 A. Point W B. Point K C. Point J D. Point L

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

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(6.NS.7)** -0.02 is closer to zero than -0.2 . Since $-0.02 > -0.2$, the answer is -0.02 .
- 2) **Choice A is correct.** **(6.G.3)** The top goes from $(1, 8)$ to $(5, 8)$. Length = $5 - 1 = 4$ units.
- 3) **Choice D is correct.** **(6.SP.4)** Point E is two fifth-marks to the left of 0, which is $-\frac{2}{5}$ or -0.4 .
- 4) **Choice B is correct.** **(6.NS.8)** Reflection across the x -axis changes the sign of the y -coordinate only. The point $(-4, -5)$ becomes $(-4, 5)$.
- 5) **Choice A is correct.** **(6.NS.8)** Height is the vertical distance: $|3 - 1| = 2$ units.
- 6) **Choice A is correct.** **(6.NS.3)** $-6 + 14 = 8^\circ\text{F}$.
- 7) **Choice C is correct.** **(6.G.1)** The height is the perpendicular distance from the base to the opposite vertex, shown by the dashed line as 7 cm.
- 8) **Choice B is correct.** **(6.G.1)** Area = $6 \times 2 = 12 \text{ in}^2$.
- 9) **Choice D is correct.** **(6.G.1)** Width: $9 - 3 = 6$ units. Height: $5 - 2 = 3$ units. Area = $6 \times 3 = 18$ square units.
- 10) **Choice C is correct.** **(6.G.4)** The surface area of a rectangular prism is $SA = 2LW + 2LH + 2WH$. This accounts for all 6 faces: two $L \times W$ faces, two $L \times H$ faces, and two $W \times H$ faces. Choice C is the correct formula.
- 11) **The correct answer is 120.** **(6.SP.1)** 25% of $480 = 0.25 \times 480 = 120$ products were sold online.
- 12) **Choice A is correct.** **(6.NS.2)** $4,896 \div 18 = 272$. Verify: $18 \times 272 = 4,896$.
- 13) **Choice C is correct.** **(6.G.2)** $V = 6.5 \times 4 \times 2.5 = 26 \times 2.5 = 65 \text{ dm}^3$.
- 14) **Choice C is correct.** **(6.SP.2)** Maximum is 20, minimum is 5. Range = $20 - 5 = 15$.
- 15) **Choice C is correct.** **(6.SP.2)** Five stems with at least one leaf each means a minimum of 5 data points (one per stem).
- 16) **Choice A is correct.** **(6.EE.9)** Since the taxi charges \$2 per mile with no additional fee, the total cost is directly proportional to miles: $c = 2m$. This passes through the origin when $m = 0, c = 0$. Options B, C, and D either add a constant or reverse the relationship.
- 17) **Choice D is correct.** **(6.EE.9)** Savings is 20% of total, and savings amount is \$20. Total: $\$20 \div 0.20 = \100 .
- 18) **Choice B is correct.** **(6.RP.3)** Divide: $9 \text{ m} \div 3 \text{ m/cm} = 3 \text{ cm}$.
- 19) **The correct answer is** $\frac{2}{5} = 40\%$ **and** $0.6 = 60\%$. **(6.RP.2)** A is correct: $\frac{2}{5} = \frac{40}{100} = 40\%$. B is correct: $0.6 \times 100 = 60\%$. C is wrong because $\frac{7}{10} = 70\%$, D is wrong because $0.08 = 8\%$, and E is wrong because $\frac{1}{8} = 12.5\%$.
- 20) **Choice B is correct.** **(6.NS.1)** You are counting how many $\frac{1}{4}$ -cup servings fit inside 2 cups—that's a division problem: $2 \div \frac{1}{4}$. Rewrite as 2×4 , which equals 8 servings.
- 21) **Choice A is correct.** **(6.NS.3)** Roughly, $8 \times 4 = 32$ since 7.9 is near 8 and 4.2 is near 4. That ballpark is what estimation is for—save the exact digits for when you need them.
- 22) **Choice B is correct.** **(6.NS.4)** For option B: factors of 8 are 1, 2, 4, 8 and factors of 15 are 1, 3, 5, 15. They share only 1. For A, GCF is 6; for C, GCF is 10; for D, GCF is 3.
- 23) **Choice B is correct.** **(6.NS.4)** 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.
- 24) **Choice D is correct.** **(6.NS.5)** Negative numbers are located to the left of zero on a number line. The number -6 is 6 units to the left of zero.
- 25) **Choice B is correct.** **(6.SP.4)** The integer score is -12 because under par is represented with a negative number. Its absolute value, $|-12| = 12$, gives the magnitude only.
- 26) **Choice D is correct.** **(6.NS.3)** Starting at -50 and withdrawing (going more negative) \$15: $-50 - 15 = -65$.



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Hi, Math Champion!

◇ You trained hard! 4 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 TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

Perfect for classroom use, homework, test preparation, and extra practice at home.

THIS BOOK INCLUDES:

4 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations

 **MORE PRACTICE.
GREATER RESULTS.**

Give your child the tools to build strong math skills, confidence, and a positive attitude toward learning.

WHAT YOU'LL 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 with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ And More!



2 ONLINE TESTS

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