

3

Utah RISE

GRADE

6

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

$$y = 2x + 3$$



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

$$36\% \text{ of } 150 = ?$$



3 | PRINTED
TESTS



2 | ONLINE
TESTS



Build
Confidence



Master Key
Math Skills



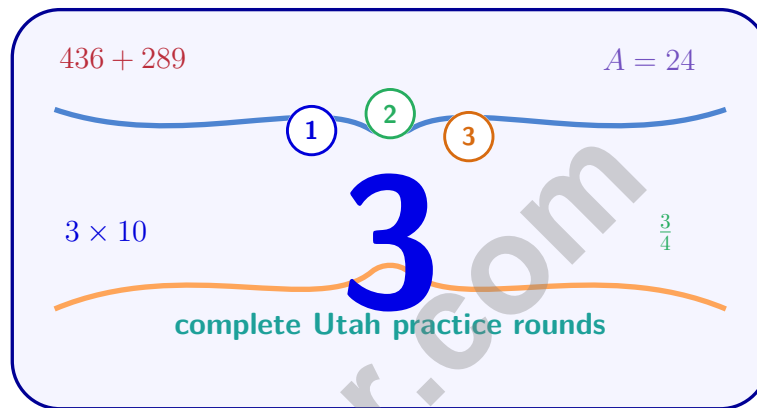
Answer Explanations
for Every Question



Test-Taking
Strategies That Work

3 Utah RISE Grade 6 Math Practice Tests

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



Three 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.

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Welcome, Utah Math Explorer!

Three focused rounds using canyon-clear review

This book gives you three 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 three-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?

Three RISE tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
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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For more practice
& answers

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1) Which two statements both describe the same ratio?

Statement X: The ratio is 5 : 15.

Statement Y: For every 1 apple there are 3 oranges.

A. Only Statement X is correct.

D. The statements describe different ratios.

B. Only Statement Y is correct.

C. Both statements describe the same ratio.

2) Divide 2,805 by 15.

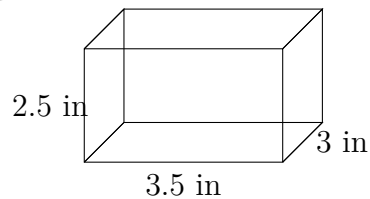
A. 187

C. 175

B. 185

D. 195

3) A delivery truck travels 360 miles in 9 hours. Find the unit rate in miles per hour.



4)

Find the volume.

A. 9 in^3

C. 26.25 in^3

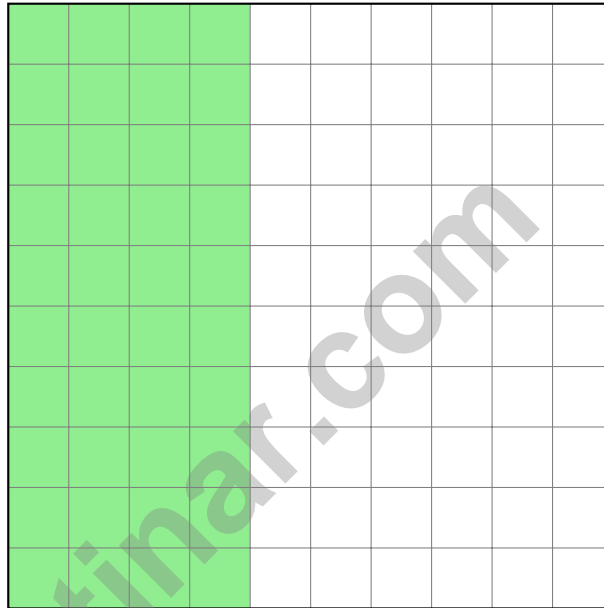
B. 21 in^3

D. 31.5 in^3



5) The mode is the value that appears most often. In a stem-and-leaf plot, the mode occurs in which stem if we see a repeated leaf?

- A. The stem with the most leaves
- B. The largest stem
- C. The smallest stem
- D. The stem corresponding to the repeated leaf value



6)

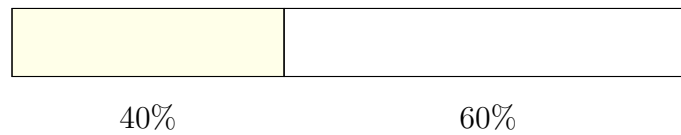
How many unshaded squares are there?

- A. 40
- B. 50
- C. 60
- D. 70

7) A bakery sells 6 muffins for \$9. What is the unit price per muffin in dollars?



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8) Total: 300 votes

In an election, the shaded portion represents votes for Candidate A. How many votes did Candidate A receive?

- A. 60 C. 180
 B. 100 D. 120

9) A juice recipe uses 2 cups orange juice, 3 cups apple juice, and 1 cup water. How much of each ingredient is needed to make triple the recipe?

- A. 2 cups, 3 cups, 1 cup C. 8 cups, 12 cups, 4 cups
 B. 5 cups, 6 cups, 4 cups D. 6 cups, 9 cups, 3 cups

10) 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 C. 12 pints
 B. 10 pints D. 14 pints

11) Lily deposits \$800 in a savings account earning 2.5% simple interest annually. What is her total amount (principal plus interest) after 1 year?

- A. \$800 C. \$820.50
 B. \$820 D. \$825



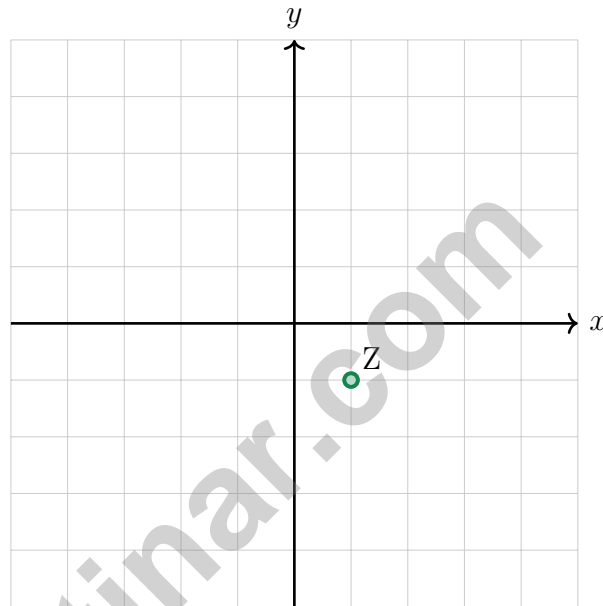
1) Calculate the MAD for the data: 1, 3, 5, 7, 9. (Mean = 5)

A. 2

C. 3

B. 2.4

D. 5



2)

Point Z is at $(1, -1)$. Which rule represents reflection over the x -axis?

A. $(x, y) \rightarrow (x, -y)$

C. $(x, y) \rightarrow (x + a, y + b)$

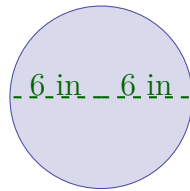
B. $(x, y) \rightarrow (-x, y)$

D. $(x, y) \rightarrow (-y, -x)$



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Diameter = 12 in



3)

A circle has a diameter of 12 inches (shown above). What is the approximate area using $\pi \approx 3.14$?

- A. 37.68 in^2
 C. 150.72 in^2
 B. 113.04 in^2
 D. 452.16 in^2

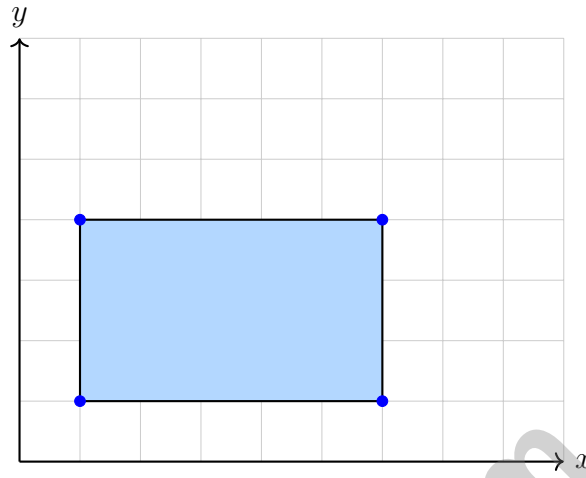
4) Read the question in the box below:

“How tall are the players on the basketball team?”

Is this a statistical question, and why or why not?

- A. No, because it asks about a team that has a fixed number of players.
 C. No, because basketball teams always have the same average height.
 B. Yes, because it asks about many different heights.
 D. Yes, because you must collect data from many players whose heights vary.
- 5) If a distribution has $Q1 = 40$, $Q2$ (median) = 50, and $Q3 = 55$, what does this tell you about the data?
- A. The bottom half is spread out more than the top half
 C. The data is perfectly symmetric
 B. The top half is spread out more than the bottom half
 D. The data is bimodal





1)

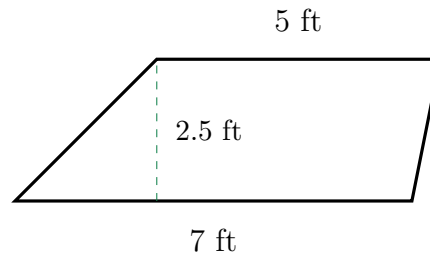
What is the area of this rectangle?

- A. 10 square units
- B. 13 square units
- C. 18 square units
- D. 15 square units

2) If the area of a triangle is 56 cm^2 and the height is 7 cm, what is the base?

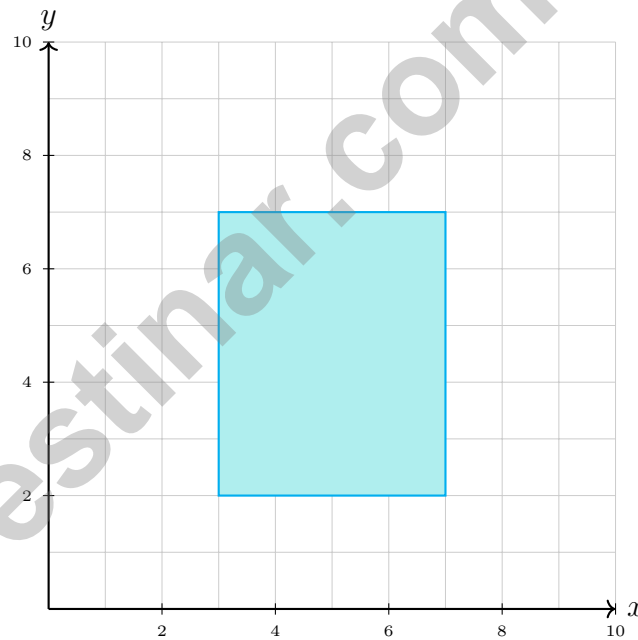
- A. 8 cm
- B. 16 cm
- C. 28 cm
- D. 56 cm

3) The point (4, 2) is reflected across the y -axis. What is the new x -coordinate?



4)

What is the area of the trapezoid with bases 7 ft and 5 ft and height 2.5 ft?

 A. 14.5 ft^2 C. 17.5 ft^2 B. 30 ft^2 D. 15 ft^2 

5)

A rectangle has vertices at (3, 2), (7, 2), (7, 7), and (3, 7). What is its area?

 A. 16 square units C. 20 square units B. 18 square units D. 22 square units

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

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(6.RP.3)** Simplify $5 : 15$ by dividing both parts by 5 to get $1 : 3$. That matches the phrase “for every 1 apple there are 3 oranges,” so both statements describe the same ratio.
- 2) **Choice A is correct.** **(6.NS.2)** $2,805 \div 15 = 187$. Check: $15 \times 187 = 2,805$.
- 3) **The correct answer is 40 miles per hour.** **(6.RP.2)** Divide distance by time: $360 \div 9 = 40$ miles per hour.
- 4) **Choice C is correct.** **(6.G.2)** $V = 3.5 \times 2.5 \times 3 = 8.75 \times 3 = 26.25 \text{ in}^3$.
- 5) **Choice D is correct.** **(6.SP.2)** A repeated leaf in a particular stem indicates that value appears more than once, making it part of the mode. Repeated leaves show which stem has the mode.
- 6) **Choice C is correct.** **(6.RP.2)** Shaded: 4 columns \times 10 rows = 40 squares. Unshaded: $100 - 40 = 60$ squares.
- 7) **The correct answer is \$1.50.** **(6.RP.3)** $\$9 \div 6 = \1.50 per muffin. Accept 1.5 as equivalent.
- 8) **Choice D is correct.** **(6.SP.1)** 40% of 300 = $0.40 \times 300 = 120$ votes.
- 9) **Choice D is correct.** **(6.RP.3)** Triple the recipe: orange $2 \times 3 = 6$ cups, apple $3 \times 3 = 9$ cups, water $1 \times 3 = 3$ cups.
- 10) **Choice B is correct.** **(6.RP.3)** Convert 2 quarts to pints: $2 \times 2 = 4$ pints. Total: $6 + 4 = 10$ pints.
- 11) **Choice B is correct.** **(6.SP.4)** Interest: $I = \$800 \times 0.025 \times 1 = \20 . Total: $\$800 + \$20 = \$820$.
- 12) **Choice A is correct.** **(6.EE.9)** Option A has a constant m/y ratio: $0.9/1 = 1.8/2 = 2.7/3 = 0.9$. Option B does not: $0.8/1 = 0.8$, $1.7/2 = 0.85$, and $2.5/3 \approx 0.83$.
- 13) **Choice A is correct.** **(6.EE.9)** Total: $\$30 + \$40 + \$50 = \120 . School supplies: $\frac{\$30}{\$120} = \frac{1}{4} = 25\%$.
- 14) **Choice B is correct.** **(6.RP.3)** Divide by the scale: $32 \div 4 = 8$ inches.
- 15) **The correct answer is 200.** **(6.RP.3)** The rate is $2 : 50$ or $1 : 25$. For 8 months: $8 \times 25 = \$200$.
- 16) **Choice B is correct.** **(6.NS.1)** Rewrite $1\frac{1}{4}$ as $\frac{5}{4}$, then multiply by the reciprocal $\frac{6}{5} : \frac{5}{4} \times \frac{6}{5} = \frac{30}{20} = \frac{3}{2}$. Student A's $\frac{15}{20}$ simplifies to $\frac{3}{4}$, which doesn't match.
- 17) **Choice A is correct.** **(6.NS.3)** Multiply both by 10: $72 \div 8 = 9$.
- 18) **Choice A is correct.** **(6.NS.4)** This is a GCF problem. The GCF of 30 and 45 is 15. So she can make 15 bracelets with 2 beads of one color and 3 of the other in each.
- 19) **Choice A is correct.** **(6.NS.4)** The GCF of 12 and 20 is 4. So $12 + 20 = 4(3 + 5)$. Choice B uses GCF 2, which is correct but not the greatest common factor. Choice A uses the greatest common factor.
- 20) **Choice B is correct.** **(6.NS.5)** Descent below sea level is represented by a negative elevation. A descent of 12 meters is an elevation of -12 meters.
- 21) **Choice A is correct.** **(6.SP.4)** The opposite of 2050 is -2050 , representing 2050 feet below the reference point.
- 22) **The correct answer is $4 : 6 = 2 : 3$ (dividing by 2) and $4 : 6 = 8 : 12$ (multiplying by 2).** **(6.RP.3)** Nice checking: Choice A works because $4 : 6$ simplifies to $2 : 3$, and Choice B works because multiplying both parts of $4 : 6$ by 2 gives $8 : 12$. The other choices change the relationship.
- 23) **Choice A is correct.** **(6.SP.4)** Distance from -1 : $|-3.2 - (-1)| = |-2.2| = 2.2$, which is greater than all other distances.
- 24) **Choice D is correct.** **(6.NS.8)** Point Q is at $(1, 4)$. When reflected across the x -axis, the x -coordinate stays the same and the y -coordinate changes sign, giving $(1, -4)$.
- 25) **Choice B is correct.** **(6.NS.7)** 3 is between 2 and 3.5 since $2 < 3 < 3.5$.
- 26) **Choice B is correct.** **(6.NS.8)** Same y -coordinate (1): $|8 - 1| = 7$ units.
- 27) **Choice D is correct.** **(6.NS.3)** $|-8| = 8$ and $|3| = 3$. So $8 + 3 = 11$.
- 28) **Choice B is correct.** **(6.NS.3)** Negative times negative is positive: $(-7) \times (-8) = 56$.
- 29) **The correct answer is 7.** **(6.RP.3)** The constant of proportionality is $k = \frac{y}{x} = \frac{21}{3} = 7$ or $\frac{49}{7} = 7$. The unit rate is 7.



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Math Detective at Work

Hi, Math Detective!

◇ You did such a great job! You finished 3 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 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:

- 3 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
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 ONLINE TESTS

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



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AND LEARNING RESOURCES



PRACTICE
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