

5

Utah RISE

GRADE 6 MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



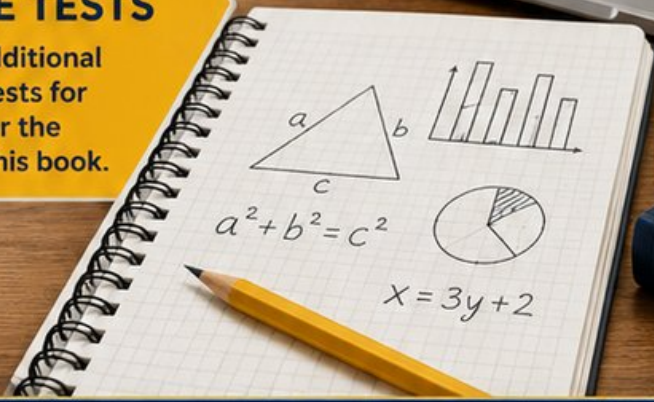
5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



+ 2 ONLINE TESTS

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



PREPARE • PRACTICE • SUCCEED



5 Utah RISE Grade 6 Math Practice Tests

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



Five 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!

Eight focused rounds using canyon-clear review

This book gives you five 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 five-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?

Eight RISE tests, 320 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 rounds with expressions, equations, geometry, data, and problem models.
Test 5	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. 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) Evaluate: $3^2 \times 2 - 4$

A. 14

C. 32

B. 18

D. 50

2) Two classes compared their test scores using a double-bar graph. Class A had a median of 82 and a range of 35 (lowest 60, highest 95). Class B had a median of 78 and a range of 28 (lowest 62, highest 90).

Which statement is TRUE based on the statistics?

A. Class A always scored higher than Class B

C. Class A's typical performance is better than Class B

B. Class A's scores were more consistent (less spread)

D. Class B has more students than Class A

3) Three students measured the ratio of pennies to dimes in their wallets:

- Student A: 4 pennies and 6 dimes
- Student B: 10 pennies and 15 dimes
- Student C: 8 pennies and 10 dimes

Which students have the same penny-to-dime ratio?

A. Students A and B only

C. Students B and C only

B. Students A and C only

D. All three students

4) Given a box plot with $Q_1 = 40$ and $IQR = 25$, find Q_3 .



- 5) A dataset has 8 values with a mean of 45. If 7 of the values are {38, 40, 42, 44, 46, 48, 50}, what is the eighth value?

- 6) Complete the ratio table:

A	2	?	8
B	5	10	20

A. 3

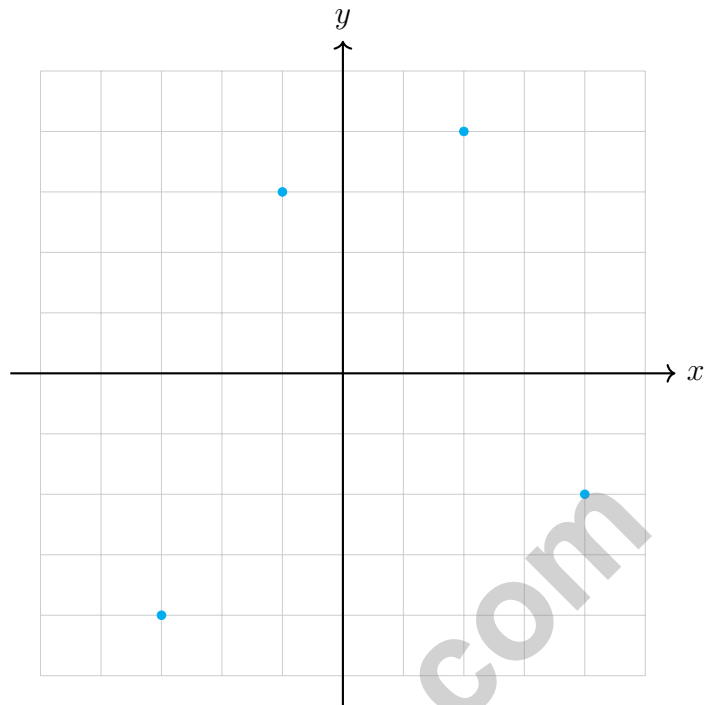
B. 4

C. 5

D. 6



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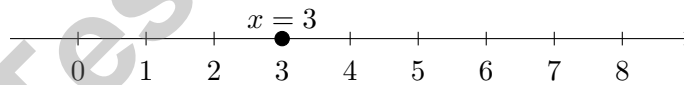


7)

Which of the plotted points is in Quadrant III?

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

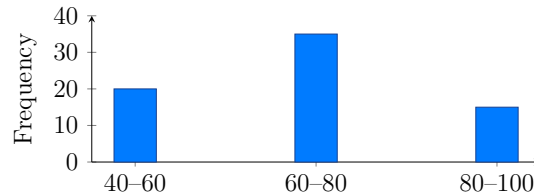
8)



Which number is less than x ?

- A. 4
- C. 1
- B. 5
- D. 6

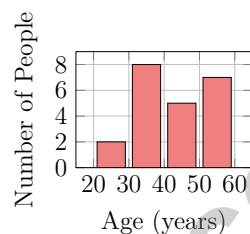
- 3) The histogram shows test scores grouped in intervals. Based on the histogram, how many students scored between 60 and 80?



- A. 15 students
- B. 20 students
- C. 35 students
- D. 55 students
- 4) A dataset's five-number summary is: min = 12, $Q_1 = 22$, median = 30, $Q_3 = 38$, max = 48. Based on the five-number summary, which value appears to be the most typical of the data?
- A. The minimum value of 12
- B. The median value of 30
- C. The maximum value of 48
- D. The range of 36
- 5) A dataset has 11 values arranged in order. The median is 55. If you remove the largest and smallest values, what will be the new median of the remaining 9 values?
- A. The median stays at 55.
- B. The median decreases to 50.
- C. The median increases to 60.
- D. Cannot be determined without knowing all values.
- 6) A number from 1 to 50 is selected at random. What is the probability that it is divisible by 5?
- A. $\frac{1}{50}$
- B. $\frac{1}{10}$
- C. $\frac{1}{5}$
- D. $\frac{1}{3}$



- 1) A pictograph shows students' favorite fruits using symbols where each symbol = 4 students. If the apple row has 5 symbols, how many students prefer apples?
- A. 5 students C. 24 students
 B. 9 students D. 20 students
- 2) A histogram displays the ages of people attending a community event. Which interval has the fewest attendees?



- A. 20–30 years C. 40–50 years
 B. 30–40 years D. 50–60 years
- 3) A student claims the median of 20, 5, 15, 10, 25 is 15 (the first middle number). Is this correct?
- A. Yes, the median is 15 D. No, the median is the sum, which is 75
 B. No, the correct median is 12.5
 C. No, must order first; median is 15
- 4) Solve for x : $x - 4 = 14$.



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.



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Utah Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice A is correct.** **(6.EE.1)** Exponent first: $3^2 = 9$. Then multiply: $9 \times 2 = 18$. Finally subtract: $18 - 4 = 14$.
- Choice C is correct.** **(6.SP.4)** Class A has a higher median (82 vs. 78), indicating better typical performance. Class A actually has MORE spread (range 35 vs. 28), so B is false. We cannot conclude $A > B$ in every score or class size from this data.
- Choice A is correct.** **(6.RP.3)** Simplify each ratio: Student A has $4 : 6 = 2 : 3$, Student B has $10 : 15 = 2 : 3$, and Student C has $8 : 10 = 4 : 5$. Only A and B match.
- The correct answer is 65.** **(6.SP.4)** $Q_3 = Q_1 + \text{IQR} = 40 + 25 = 65$.
- The correct answer is 52.** **(6.SP.5)** Mean = sum / count. $45 = \text{sum} / 8 \Rightarrow \text{sum} = 360$. Sum of 7 known values = $38 + 40 + 42 + 44 + 46 + 48 + 50 = 308$. Eighth value = $360 - 308 = 52$.
- Choice B is correct.** **(6.RP.3)** The ratio is 2 : 5 (A to B). For B = 10, we have $5 \times 2 = 10$, so $A = 2 \times 2 = 4$.
- Choice D is correct.** **(6.NS.8)** The point in Quadrant III (lower left) has both negative coordinates. The point $(-3, -4)$ fits this description.
- Choice C is correct.** **(6.NS.7)** $x = 3$. Since $1 < 3$, the number 1 is less than x .
- Choice C is correct.** **(6.G.3)** Side length = 4 units. Perimeter = $4 \times 4 = 16$ units.
- Choice D is correct.** **(6.RP.3)** Count the lavender counters first: there are 5. The total is $5 + 2 = 7$, so lavender to total is 5 : 7.
- Choice C is correct.** **(6.RP.2)** Divide cost by pounds: $3 \div 2 = 1.50$ dollars per pound.
- Choice B is correct.** **(6.RP.3)** The correct calculation is $\$48 \div 4 = \12 per shirt. The student reversed the division, computing $4 \div 48$ instead of $48 \div 4$. Unit price requires cost per unit, not units per cost.
- Choice B is correct.** **(6.RP.3)** The ratio is 5 : 6. When action figures are 30 (multiply by 6), dolls are $6 \times 6 = 36$.
- Choice C is correct.** **(6.RP.3)** The ratio is sugar:butter = 3:2. If sugar = 6, the scale factor is $6 \div 3 = 2$. So butter = $2 \times 2 = 4$ cups.
- Choice B is correct.** **(6.SP.1)** 20% of $\$45 = 0.20 \times 45 = \9.00 .
- Choice D is correct.** **(6.RP.3)** Converting feet to inches: multiply by 12 (since 1 foot = 12 inches). $8 \times 12 = 96$ inches. The student's process and answer are correct.
- Choice C is correct.** **(6.SP.4)** Brand X costs $\$3.00 \div 12 = \0.25 per ounce. Brand Y costs $\$4.50 \div 15 = \0.30 per ounce. Brand X has the lower unit price.
- Choice A is correct.** **(6.EE.9)** A relationship is proportional if y/x is constant. Option A has $5/1 = 5$, $10/2 = 5$, and $15/3 = 5$, so it is proportional. Option B has $3/1 = 3$ and $5/2 = 2.5$, so the ratio is not constant.
- Choice B is correct.** **(6.EE.9)** The ratio is $\frac{15}{100} = 0.15 = 15\%$.
- Choice D is correct.** **(6.RP.3)** Multiply: 5 inches \times 25 miles/inch = 125 miles.
- Choice D is correct.** **(6.NS.1)** $\frac{4}{5} \times \frac{3}{2} = \frac{12}{10} = \frac{6}{5}$.
- The correct answer is The population is all students in the school, and the sample is the students surveyed..** **(6.SP.2)** Options A and C correctly distinguish between population (all students) and sample (those surveyed). Option B is wrong because the question is statistical. Option D is false because responses can vary. Option E is false because it does not have only one correct answer.
- Choice B is correct.** **(6.NS.3)** Multiply: $2.5 \times 3 = 7.5$ kg.
- Choice D is correct.** **(6.NS.4)** This is an LCM problem. Multiples of 8: 8, 16, 24, ... Multiples of 12: 12, 24, ... Both buses are at the station together at 24 minutes.
- The correct answer is $\frac{3}{10}$.** **(6.NS.3)** Total marbles = $7 + 3 = 10$. Red marbles = 3. Probability = $\frac{3}{10}$. This fraction is already in lowest terms.



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Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 5 tests is like 5 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



ACHIEVE SUCCESS

Consistent practice leads to greater results.

WHAT'S INSIDE?



5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



Realistic Questions

A variety of question types to strengthen problem-solving skills.



Answer Keys & Explanations

Detailed solutions to help students learn and improve.



Performance Tracking

Track progress and identify areas that need improvement.



Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



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BRIGHTLY

PREPARE TODAY. **SUCCEED TOMORROW!**