

# 7

# Utah

# RISE

## Grade 3 MATH

## PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations



7 Full-Length  
Practice Tests



Standards-Aligned  
Math Practice



Detailed Answer Keys  
and Explanations



Build Confidence.  
Achieve Success.

PREPARE  
PRACTICE  
SUCCEED



# 7 Utah RISE Grade 3 Math Practice Tests

*Standards-Aligned Practice with Review, Answer Keys, and Explanations*



Seven complete 30-question practice trails for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome to the Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

## To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Utah RISE. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

Utah has red-rock arches, canyon trails, mountain snow, salt flats, and shape-filled views, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and use shapes and patterns to plan the work.

### Scout

Find what the problem is asking before you calculate.

### Solve

Pick an equation, model, array, graph, or number line.

### Prove

Check the answer and explain the thinking clearly.

**Seven-trail promise:** I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

# How to Use This Book

## A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For Utah students, each trail moves through red-rock arches, canyon trails, mountain snow, salt flats, and shape-filled views: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

**Best review habit:** A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



## What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Utah Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Utah RISE path.



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& answers

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1) Which multiplication has an odd product?

A.  $6 \times 3$

C.  $5 \times 7$

B.  $4 \times 7$

D.  $8 \times 2$

2) Lily has 6 whole crayons. Which shows this as a fraction?

A.  $\frac{1}{6}$

C.  $\frac{6}{6}$

B.  $\frac{6}{1}$

D.  $\frac{2}{6}$

3) How many vertices (corners) does a quadrilateral have?

A. 2

C. 6

B. 3

D. 4

4) Mia and one friend share 16 cookies equally. How many cookies does each person get?

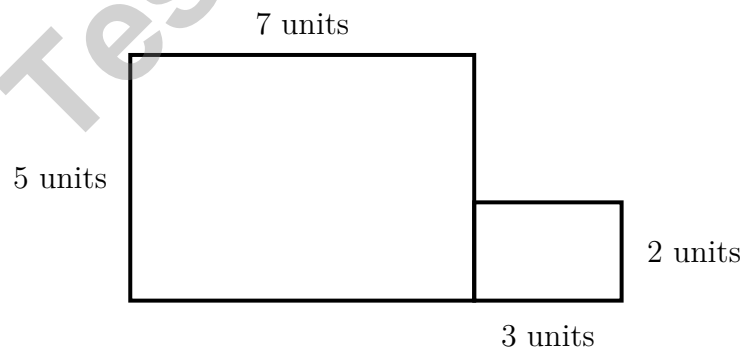
A. 6

C. 14

B. 18

D. 8

5) Noah has an L-shaped poster. The left side is 7 units by 5 units. The right side is 3 units by 2 units. What is the total area of the poster?



A. 35 sq units

C. 210 sq units

B. 6 sq units

D. 41 sq units



6) Which number rounds to 70 when rounded to the nearest 10?

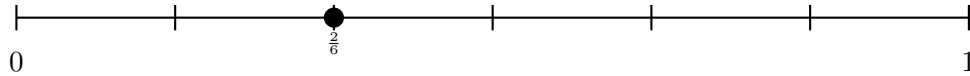
A. 64

C. 75

B. 76

D. 67

7) On a 6-part number line,  $\frac{2}{6}$  is between which two fractions?



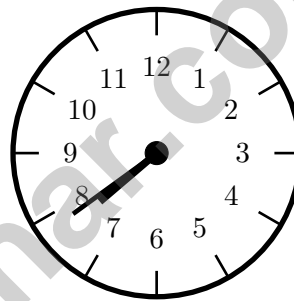
A. Between 0 and  $\frac{1}{6}$

C. Between  $\frac{3}{6}$  and  $\frac{4}{6}$

B. Between  $\frac{1}{6}$  and  $\frac{3}{6}$

D. Between  $\frac{5}{6}$  and 1

8) What time does the clock show?



A. 6 : 39

C. 8 : 09

B. 7 : 50

D. 7 : 39

9) A farmer puts 7 eggs in each carton. If he fills 9 cartons, how many eggs are there?

A. 56 eggs

C. 72 eggs

B. 16 eggs

D. 63 eggs



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1)

Row	1st	2nd	3rd	4th
A	3	6	9	12
B	5	10	15	20

Which row shows multiples of 3?

- A. Row A only
- B. Row B only
- C. Both rows
- D. Neither row
- 2) There are 5 rows of chairs and 6 chairs in each row. How many chairs are there in total?
- A. 25 chairs
- B. 40 chairs
- C. 35 chairs
- D. 30 chairs
- 3) Which of the following is measured in square units (like square inches or square centimeters)?
- A. Time
- B. Perimeter (measured in inches, feet, or meters)
- C. Length (measured in inches, feet, or meters)
- D. Area (space inside a shape)
- 4) Add  $375 + 248$  using the standard algorithm (aligning by place value).



5) A sheet of paper is folded to make 2 equal halves. What unit fraction is one half?

A.  $\frac{1}{3}$

B.  $\frac{2}{1}$

C.  $\frac{1}{2}$

D.  $\frac{1}{1}$

6) Look at these three different ways to group the factors in the same multiplication.

**Group 1:**  $(2 \times 6) \times 5$

First:  $2 \times 6 = 12$ . Then:  $12 \times 5 = 60$

**Group 2:**  $2 \times (6 \times 5)$

First:  $6 \times 5 = 30$ . Then:  $2 \times 30 = 60$

**Group 3:**  $6 \times (2 \times 5)$

First:  $2 \times 5 = 10$ . Then:  $6 \times 10 = 60$

Which groupings show the associative property without changing the order of the factors?

 A. Only Group 1 B. Groups 2 and 3 only C. All three groups D. Groups 1 and 2 only

7) A picture graph shows crayons. Each crayon symbol is 2 crayons. If there are 6 symbols in total and we remove 2 symbols, how many crayons remain?

 A. 4 B. 8 C. 10 D. 12

8) Two circles are identical. Circle X shows  $\frac{3}{4}$  shaded gray. Circle Y shows  $\frac{6}{8}$  shaded gray. Are the shaded parts the same size?

 A. They cannot be compared. B. No, Circle Y is larger. C. Yes, they are equal. D. No, Circle X is larger.

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1) What is 586 rounded to the nearest 100?

A. 500

C. 586

B. 580

D. 600

2) Which shape has opposite sides that are parallel and equal in length?

A. Triangle

C. Pentagon

B. Trapezoid

D. Parallelogram

3) Which picture shows 3 groups of 4?

A. ★★ ★★ ★★ ★★

C. ★★ ★★ ★★

B. ★★ ★★ ★★

D. ★★ ★★ ★★ ★★

4) A rectangle has 4 rows of unit squares and 8 columns of unit squares. What is its area?



5) A tile has an area of 16 square inches. Which dimensions could make this area?

A. 4 in and 4 in

C. 2 in and 7 in

B. 3 in and 5 in

D. 5 in and 4 in



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## Practice Test Answer Keys

**How to use this section with a Grade 3 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

- Choice C is correct.** **(3.OA.9)**  $5 \times 7 = 35$ , which is odd. Choices A, B, D all have an even factor, so they give even products.
- Choice B is correct.** **(3.G.2)** Any whole number  $n$  equals  $\frac{n}{1}$ . So  $6 = \frac{6}{1}$ .
- Choice D is correct.** **(3.G.1)** A quadrilateral has 4 vertices (corners), one at each place where two sides meet.
- Choice D is correct.** **(3.OA.1)** There are 2 people total.  $16 \div 2 = 8$ , so each person gets 8 cookies.
- Choice D is correct.** **(3.MD.5)** Left side:  $7 \times 5 = 35$  sq units. Right side:  $3 \times 2 = 6$  sq units. Total:  $35 + 6 = 41$  sq units.
- Choice D is correct.** **(3.NBT.1)** Numbers from 65 to 74 round to 70. The number 67 has ones digit  $7 \geq 5$ , so it rounds up to 70.
- Choice B is correct.** **(3.NF.2)**  $\frac{2}{6}$  is between  $\frac{1}{6}$  (tick 1) and  $\frac{3}{6}$  (tick 3). It's the middle tick.
- Choice D is correct.** **(3.MD.1)** The minute hand points to 39 minutes, between 7 and 8. The hour hand is between 7 and 8, closer to 8. The time is 7:39.
- Choice D is correct.** **(3.OA.1)** 9 cartons with 7 eggs each means 9 groups of 7. So  $9 \times 7 = 63$  eggs.
- Choice C is correct.** **(3.NBT.2)** Looking at the row for 6, the pattern continues:  $6 \times 9 = 54$ .
- Choice D is correct.** **(3.OA.4)** The fact family uses the numbers 3, 9, and 27. The equation  $27 \div 6 = 4$  uses 6, which is not in this fact family.
- Choice B is correct.** **(3.MD.6)** The pink square is still one of the unit squares. The rectangle has  $4 \times 3 = 12$  distinct unit squares.
- The correct answer is  $\frac{1}{2}$ .** **(3.NF.2)**  $\frac{3}{6} = \frac{1}{2}$ .
- Choices A and C are correct.** **(3.OA.5)** A shows  $5 \times (3 + 2) = 5 \times 3 + 5 \times 2$ , which is the distributive property. C shows  $3 \times (2 + 4) = 3 \times 2 + 3 \times 4$ , also distributive. B is commutative, D is associative, and E is just a fact.
- Choice C is correct.** **(3.MD.6)** Area =  $9 \text{ in} \times 2 \text{ in} = 18$  square inches = 18 unit squares.
- Choice A is correct.** **(3.NF.3)** Divide the numerator and denominator of  $\frac{2}{6}$  by 2:  $\frac{2 \div 2}{6 \div 2} = \frac{1}{3}$ .
- Choice A is correct.** **(3.OA.6)** In a fact family, if  $5 \times 7 = 35$ , then  $35 \div 5 = 7$  (because  $7 \times 5 = 35$ ) and  $35 \div 7 = 5$  (because  $5 \times 7 = 35$ ). In division, we find the missing factor from the multiplication fact. Options C and D incorrectly repeat the same number.
- Choice A is correct.** **(3.OA.3)** Divide:  $63 \div 9 = 7$  groups.
- Choice A is correct.** **(3.NBT.3)**  $3 \times 80 = 240$  and  $8 \times 30 = 240$ . Both equal 240. The other pairs have different products.
- Choice A is correct.** **(3.MD.7)** Both rectangles have width 3. Total length is  $10 + 6 = 16$ . Combined area is  $(3 \times 10) + (3 \times 6) = 30 + 18 = 48$ .
- Choice C is correct.** **(3.MD.8)** Area = length  $\times$  width =  $8 \times 4 = 32$  square meters.
- Choice A is correct.** **(3.NF.3)** The bars show the same shaded amount.  $\frac{2}{8}$  and  $\frac{1}{4}$  are equivalent.
- Choice C is correct.** **(3.MD.4)** Looking at the line plot, the mark at  $13\frac{1}{2}$  has no X's above it, so there are no measurements at that height.
- Choice A is correct.** **(3.NBT.2)** Ones:  $0 - 5$  requires regrouping, so  $10 - 5 = 5$ . Tens:  $4 - 2 = 2$ . Hundreds:  $7 - 3 = 4$ . Answer: 425.
- The correct answer is 20 square units.** **(3.MD.7)** The grid shows 5 columns and 4 rows. Area =  $5 \times 4 = 20$  square units. You can also add by rows:  $5 + 5 + 5 + 5 = 20$  (four rows of five).
- Choice C is correct.** **(3.MD.3)** Multiply:  $3 \times 5 = 15$  cookies.
- The correct answer is 450 mL.** **(3.MD.2)** Subtract total poured out:  $200 + 150 = 350$  mL. Remaining:  $800 - 350 = 450$  mL.
- Choice D is correct.** **(3.OA.8)** First multiply the number of packs by crayons per pack:  $4 \times 9 = 36$ . Then add the crayons she has:  $36 + 7 = 43$ .
- Choice A is correct.** **(3.NF.3)** Both fractions equal one whole. Two halves and three thirds both fill the entire bar.



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## Ahoy, Math Sailor!

◇ You sailed through 7 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

### Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

**Captain's tip:** on test day, sail steady. Trust the map you built through 7 practice tests. You will reach safe harbor!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Captain

# PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



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