

5

Utah

RISE

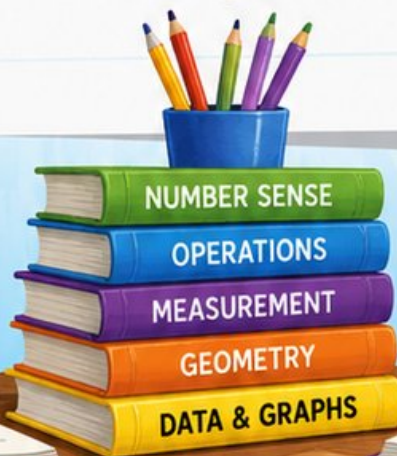
GRADE 3

MATH

PRACTICE TESTS

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

$24 \div 3 = 8$



5 FULL-LENGTH  
PRACTICE TESTS



STANDARDS-  
ALIGNED  
PRACTICE



DETAILED  
ANSWER KEYS



CLEAR  
EXPLANATIONS  
TO HELP YOU SUCCEED

# 5 Utah RISE Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Five focused 30-question checkpoints for Grade 3 math: facts, 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 Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

## To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Utah RISE. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Utah has red rock paths, mountain valleys, salt flats, and canyons that make careful noticing powerful. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

### Notice

Circle key words, units, and numbers before you start.

### Build

Use arrays, number lines, equations, tables, or sketches.

### Verify

Ask, “Does this answer fit the question?”

**Five-checkpoint promise:** I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

# How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

**Best review habit:** Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



## What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	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. That mix gives students practice with quick choices, careful reasoning, and short written answers.



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For more practice  
& answers

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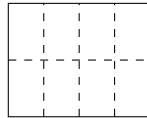
1) A rectangular sandbox in a park has a length of 9 feet and a width of 7 feet. What is the area of the sandbox?

A. 63 sq ft

C. 16 sq ft

B. 32 sq ft

D. 126 sq ft



2)

This rectangle is divided into equal parts. What multiplication sentence shows this?

A.  $2 \times 2 = 4$

C.  $5 \times 2 = 10$

B.  $3 \times 2 = 6$

D.  $4 \times 2 = 8$

3) Look at the circles. Circle 1 shows  $\frac{4}{8}$  shaded. Circle 2 shows  $\frac{1}{2}$  shaded. If both circles are the same size, which is true?

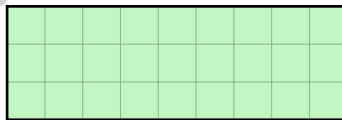
A. The circles are not the same.

C. Both have the same shaded amount.

B. Circle 2 has more shaded.

D. Circle 1 has more shaded.

4) On this grid, how many unit squares fill the rectangle?



A. 12 sq units

C. 24 sq units

B. 18 sq units

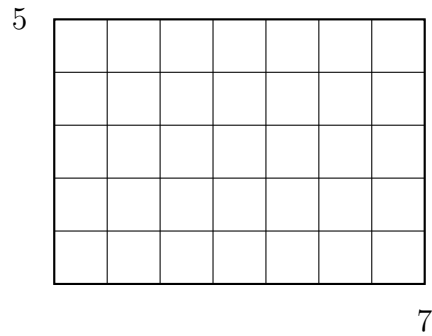
D. 27 sq units



- 5) Which is the same as  $5 \times (4 + 2)$ ?
- A.  $5 \times 4 + 5 \times 2$                        C.  $5 + 4 + 2$   
 B.  $5 \times 4 + 2$                                D.  $20 + 2$
- 6) Look at the fact family for 3, 6, and 18. Which shows TWO correct related facts?
- A.  $3 \times 6 = 18$  and  $6 \times 3 = 18$                        C.  $3 \times 6 = 19$  and  $19 \div 6 = 3$   
 B.  $3 \times 6 = 18$  and  $18 \div 3 = 6$                        D.  $3 \times 6 = 20$  and  $20 \div 3 = 6$
- 7) A rectangle has a length of 10 cm and a width of 2 cm. Which answer shows its area?
- A. 12 sq cm                                       C. 20 sq cm  
 B. 24 sq cm                                       D. 30 sq cm
- 8) A number line from 0 to 1 is divided into 3 equal parts. The unit fraction is  $\frac{1}{3}$ . Where is the second tick from 0?
- A.  $\frac{1}{3}$  (the unit fraction)                       C.  $\frac{1}{6}$   
 B.  $\frac{2}{3}$  (two unit fractions)                       D.  $\frac{3}{3}$
- 9) A line plot displays pencil masses in grams: 7,  $7\frac{1}{2}$ , 8,  $8\frac{1}{2}$ . The X counts are: 2 at 7 grams, 3 at  $7\frac{1}{2}$  grams, 2 at 8 grams, and 1 at  $8\frac{1}{2}$  grams. How many pencils are there altogether?
- A. 6     C. 8  
 B. 7     D. 9
- 10) A square garden has sides of 6 units each. Sam wants to tile it with unit square stepping stones. How many stones does he need to cover the entire garden?
- A. 12 stones                                       C. 36 stones  
 B. 24 stones                                       D. 48 stones



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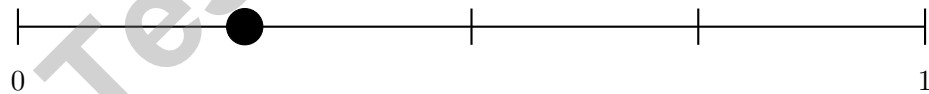
11)

What is the area of this rectangle?

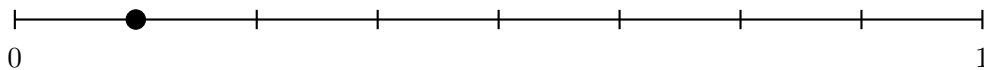
- A. 12
- B. 24
- C. 35
- D. 75

12) Find  $5 \times (7 + 4)$ .

13) A number line from 0 to 1 has two unlabeled points. Point X is at the first tick of a 4-part line. Point Y is at the first tick of an 8-part line. Which is farther from 0?



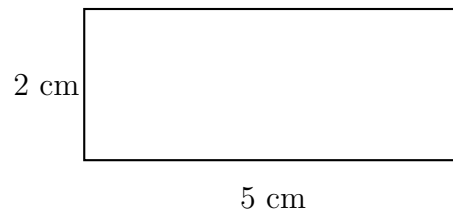
Point X



Point Y

- A. Point X
- B. Point Y
- C. They are equidistant
- D. Cannot be determined



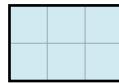


1)

What is the area of the rectangle shown?

- A. 7 sq cm                       C. 12 sq cm  
 B. 14 sq cm                     D. 10 sq cm

2) This shape is made of unit squares on a grid.



How many unit squares cover this rectangle?

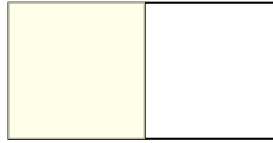
- A. 6 sq units                       C. 8 sq units  
 B. 5 sq units                       D. 10 sq units

3) A rectangle is divided into 4 equal parts. If 3 parts are shaded, what fraction of the rectangle is shaded?





1) Here is a rectangle divided into 2 equal halves by a vertical line.



The shaded part is what fraction of the rectangle?

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

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

2) Which fraction equals  $\frac{1}{4}$ ?

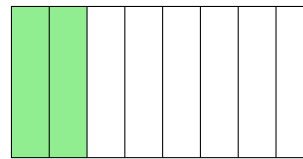
- A.  $\frac{2}{4}$
- B.  $\frac{2}{8}$

- C.  $\frac{1}{8}$
- D.  $\frac{3}{8}$

3) Two identical rectangular gardens are shown. Garden 1 has  $\frac{1}{4}$  planted with flowers. Garden 2 has  $\frac{2}{8}$  planted with flowers. Do the flower sections cover the same area?



Garden 1:  $\frac{1}{4}$  flowers



Garden 2:  $\frac{2}{8}$  flowers

- A. The gardens are different sizes.
- B. No, Garden 2 has more.
- C. No, Garden 1 has more.
- D. Yes, same amount.

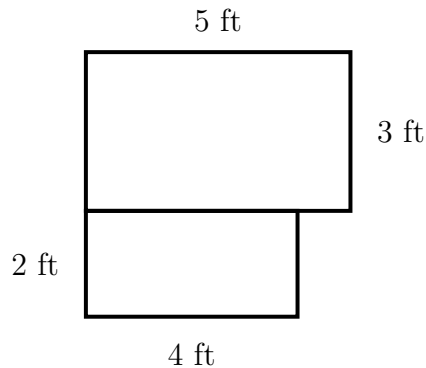
4) A teacher has 24 crayons and 8 students. She shares the crayons equally. How many crayons does each student get? Which multiplication fact helps you solve this?

- A.  $8 \times 3 = 24$  (each student gets 3 crayons)
- B.  $8 \times 4 = 32$  (too many crayons)
- C.  $6 \times 4 = 24$  (wrong number of students)
- D.  $8 + 3 = 11$  (adding, not dividing)

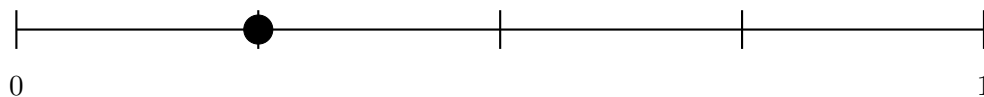


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- 5) An L-shaped room plan shows two rectangles. Top: 5 ft by 3 ft. Bottom: 4 ft by 2 ft. What is the total floor area?



- A. 15 sq ft                       C. 120 sq ft  
 B. 8 sq ft                         D. 23 sq ft
- 6) A line plot shows rock weights in ounces:  $3, 3\frac{1}{2}, 4, 4\frac{1}{2}$ . There are 4 X's at  $3\frac{1}{2}$  ounces, 2 X's at 3 ounces, and 3 X's at 4 ounces. How many rocks weigh less than 4 ounces?
- A. 4                                       C. 6  
 B. 5                                       D. 7
- 7) The pattern for multiples of 6: 6, 12, 18, 24, 30, 36. What is the rule?
- A. Add 5 each time                       C. Double the number  
 B. Skip count by 2                         D. Add 6 each time
- 8) On a number line from 0 to 1 split into 4 equal parts, the distance from 0 to  $\frac{1}{4}$  is what part of the whole line?



- A.  $\frac{1}{4}$  of the line                       C.  $\frac{3}{4}$  of the line  
 B.  $\frac{2}{4}$  of the line                         D. The whole line



## 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

- 1) **Choice A is correct.** (3.MD.C.7b) Area = length  $\times$  width =  $9 \times 7 = 63$  square feet.
- 2) **Choice D is correct.** (3.OA.A.1) The rectangle has 4 columns and 2 rows of equal parts. So  $4 \times 2 = 8$  parts in total.
- 3) **Choice C is correct.** (3.NF.A.3a)  $\frac{4}{8} = \frac{1}{2}$ . Both represent one-half of their circles.
- 4) **Choice D is correct.** (3.MD.C.6)  $9 \times 3 = 27$  unit squares.
- 5) **Choice A is correct.** (3.OA.B.5) The distributive property says  $5 \times (4 + 2) = 5 \times 4 + 5 \times 2 = 20 + 10 = 30$ .
- 6) **Choice B is correct.** (3.OA.C.7) The fact family for 3, 6, and 18 includes:  $3 \times 6 = 18$ ,  $6 \times 3 = 18$ ,  $18 \div 3 = 6$ , and  $18 \div 6 = 3$ . Choice B shows one multiplication fact and its related division fact.
- 7) **Choice C is correct.** (3.MD.C.7) Area =  $10 \times 2 = 20$  square cm.
- 8) **Choice B is correct.** (3.NF.A.2a) The unit fraction is  $\frac{1}{3}$ . The second tick is at two unit fractions:  $2 \times \frac{1}{3} = \frac{2}{3}$ .
- 9) **Choice C is correct.** (3.MD.B.4) Add all X's:  $2 + 3 + 2 + 1 = 8$  pencils total.
- 10) **Choice C is correct.** (3.MD.C.5b)  $6 \times 6 = 36$  unit square stones.
- 11) **Choice C is correct.** (3.MD.C.7a)  $7 \times 5 = 35$  square units.
- 12) **The correct answer is 55 square units.** (3.MD.C.7c)  $7 + 4 = 11$ , and  $5 \times 11 = 55$  square units.
- 13) **Choice A is correct.** (3.NF.A.2) Point X is at  $\frac{1}{4}$ , while Point Y is at  $\frac{1}{8}$ . Since  $\frac{1}{4} = \frac{2}{8}$ , Point X is farther from 0.
- 14) **Choice A is correct.** (3.MD.A.1) 11 : 48 is 12 minutes before 12 : 00 (noon). Both describe the same time. Distractor B is true but doesn't match the goal; C is false ( $11 + 12 \text{ min} = 11 : 12$ ).
- 15) **Choice C is correct.** (3.NF.A.3)  $\frac{3}{4}$  is not equivalent to  $\frac{4}{8}$ , which equals  $\frac{1}{2}$ . The other choices all name three-fourths.
- 16) **The correct answer is 277.** (3.NBT.A.2) Regroup 604 as 5 hundreds, 9 tens, and 14 ones. Ones:  $14 - 7 = 7$ . Tens:  $9 - 2 = 7$ . Hundreds:  $5 - 3 = 2$ . Correct: 277.
- 17) **Choices B and C are correct.** (3.OA.A.4) Choice B is true because  $48 \div 6 = 8$ . Choice C is true because  $7 \times 7 = 49$ . Choice A is false ( $6 \times 8 = 48$ , not 42). Choice D is false ( $54 \div 9 = 6$ , not 5). Choice E is false ( $4 \times 9 = 36$ , not 35).
- 18) **Choice B is correct.** (3.MD.B.3)  $2 \times 10 = 20$  cars.
- 19) **Choice D is correct.** (3.MD.C.5) Rectangle A:  $2 \times 6 = 12$  square units. Rectangle B:  $3 \times 4 = 12$  square units. Both have the same area.
- 20) **Choice B is correct.** (3.OA.B.6) If  $\square \div 5 = 8$ , then to find the missing dividend, we use the inverse:  $8 \times 5 = \square$ . Since  $8 \times 5 = 40$ , the answer is 40. Options A and C are off-by-one products. Option D adds instead of multiplies.
- 21) **Choice C is correct.** (3.MD.C.5a) The garden is  $6 \text{ m} \times 2 \text{ m} = 12 \text{ m}^2$ , which equals 12 unit squares of 1 m by 1 m.
- 22) **Choice B is correct.** (3.NF.A.3b)  $\frac{1}{3} = \frac{2}{6}$  and  $\frac{2}{8} = \frac{1}{4}$ . But  $\frac{1}{2}$  is not equivalent to  $\frac{1}{3}$ .
- 23) **Choice C is correct.** (3.NBT.A.3) The area model shows 4 groups of  $(6 \times 10)$ . Adding:  $60 + 60 + 60 + 60 = 240$ . Or:  $(4 \times 6) \times 10 = 24 \times 10 = 240$ .
- 24) **Choice D is correct.** (3.OA.D.9) Each product is made by multiplying a number by itself:  $1 \times 1$ ,  $2 \times 2$ ,  $3 \times 3$ , and so on. That is the pattern on this diagonal.
- 25) **Choice C is correct.** (3.OA.D.8) Step 1: After eating:  $18 - 7 = 11$  apples. Step 2: Add new:  $11 + 4 = 15$  apples. (Choice A is step 1 only.)
- 26) **Choice A is correct.** (3.MD.A.2) 250 mL is the smallest amount.
- 27) **Choice A is correct.** (3.MD.C.7d) Add the areas:  $18 + 11 = 29$  square units. Choice B (only one part) and C (subtraction) are common errors.
- 28) **Choice B is correct.** (3.NF.A.3c) Any whole number can be written as that number over 1. So  $3 = \frac{3}{1}$ . (D) equals 1, not 3.
- 29) **Choice A is correct.** (3.NF.A.3d) Same numerator (5): sixths are bigger pieces than eighths. So  $\frac{5}{6} > \frac{5}{8}$ . Ben ran farther.
- 30) **The correct answer is 8.** (3.OA.A.2)  $16 \div 2 = 8$ .



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## Hi, Strong Climber!

◇ You climbed all 5 tests. One step at a time. That takes patience and grit. The view from the top is amazing because you earned it! ◇

★ **Mountain guides say:** steady steps win the climb. You climbed steady. You stayed strong. ★

### Climber's Skills

- **Strong Steps:** You move forward, problem by problem.
- **Steady Pace:** You don't rush. You don't stop.
- **Map Skills:** You read questions carefully.
- **Top of the Mountain:** You can finish a long test.

**Guide's tip:** on test day, take small breaths between problems. One foot, then the next. You'll reach the top!

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

**Jay Daie**

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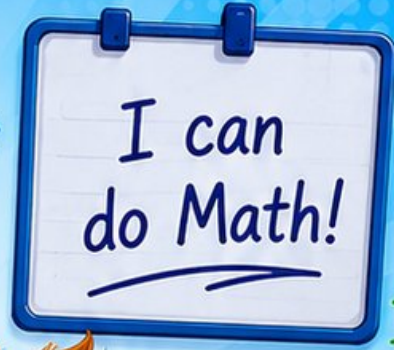
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- ✓ Data & Graphs
- ✓ Word Problems
- ✓ And More!



Visit [testinar.com/math3](https://testinar.com/math3) for more Grade 3 math resources and practice materials!



$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ \hline = 274 \end{array}$$



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Classroom Learning



Homework Support



Test Preparation



Extra Practice & Review