

5

Montana

MAST

GRADE 3

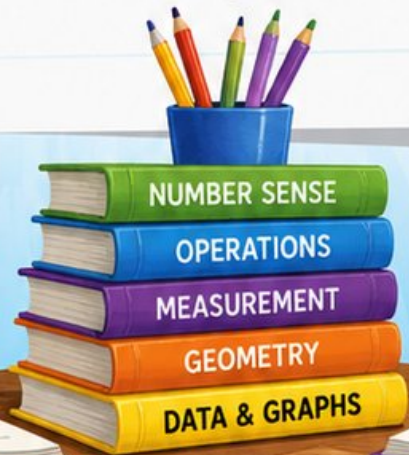
MATH

PRACTICE TESTS

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

$24 \div 3 = 8$

$125 + 37$



5 FULL-LENGTH PRACTICE TESTS



STANDARDS-ALIGNED PRACTICE



DETAILED ANSWER KEYS



CLEAR EXPLANATIONS TO HELP YOU SUCCEED

# 5 Montana MAST 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 Montana MAST. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Montana has big skies, mountain trails, wide prairies, and open places where focus carries you forward. 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 Montana 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.



Scan me!  
For more practice  
& answers

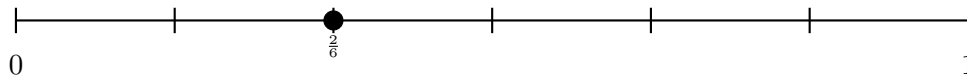
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1) Sam bought 18 pencils. He wants to put them into 3 boxes equally. How many pencils go in each box?

- A. 6  C. 15  
 B. 5  D. 21

2) 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

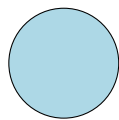
3) Which does NOT equal  $6 \times 3$ ?

- A.  $3 \times 6$   C.  $6 \times 2 + 6 \times 1$   
 B.  $6 \times (2 + 1)$   D.  $4 \times 3 + 2$

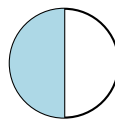
4) A picture graph shows marbles. Each circle represents 2 marbles. Ava has 5 circles and Noah has 3 circles. How many more marbles does Ava have?

- A. 4  C. 8  
 B. 6  D. 10

5) Which circle shows 1 whole?



Circle A



Circle B

- A. Circle B  C. Neither  
 B. Both circles  D. Circle A



6) 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

7) A square rug has side length 5 meters. What is its area?

 A. 10 sq m C. 25 sq m B. 20 sq m D. 30 sq m

8) A chocolate bar is divided into 4 equal pieces. What fraction is one piece?

9) Which pair of numbers always has an even product?

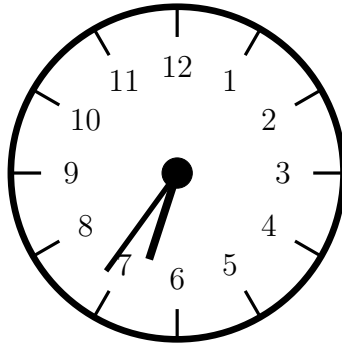
 A. Two odd numbers C. Two odd numbers or two even numbers B. An odd number and any other whole number D. An even number and any other whole number

10) Ava buys three bags of flour: one weighs 2 kg, another weighs 500 g, and the last weighs 300 g. What is the total mass in grams?



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For more practice  
& answers

11) Look at the clock. What time is shown?



A. 6 : 32

C. 4 : 30

B. 6 : 36

D. 10 : 32

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



Count the unit squares. What is the area?

A. 24 sq units

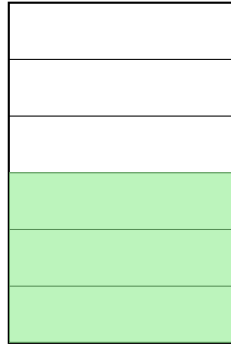
C. 35 sq units

B. 30 sq units

D. 40 sq units



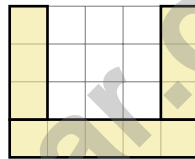
1) A rectangle has 6 equal parts. Sam colors 3 parts. Which fraction does Sam color?



- A.  $\frac{1}{6}$   
 B.  $\frac{2}{6}$

- C.  $\frac{3}{6}$   
 D.  $\frac{4}{6}$

2) This grid shows a U-shaped figure made of unit squares. Count the squares carefully.



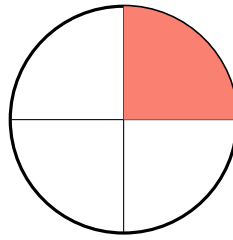
How many unit squares form this U-shape?

- A. 5 sq units  
 B. 8 sq units

- C. 11 sq units  
 D. 20 sq units



3) Look at the picture. The circle is divided into equal parts.



What unit fraction is shaded?

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

- C.  $\frac{1}{2}$   
 D.  $\frac{4}{4}$

4) Sam has 8 groups of 10 stickers. How many stickers does Sam have in total?

| Tens | Ones |
|------|------|
| 8    | 0    |

- A. 18  
 B. 108

- C. 810  
 D. 80

5) There are 18 apples in a basket. 7 apples are eaten. Then 4 new apples are added. How many apples are in the basket now?

- A. 11  
 B. 14

- C. 15  
 D. 18

6) A T-shaped living area has parts with areas 12 sq units, 9 sq units, and 9 sq units. What is the total area?

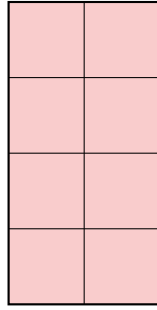
- A. 30 sq units  
 B. 21 sq units

- C. 36 sq units  
 D. 108 sq units



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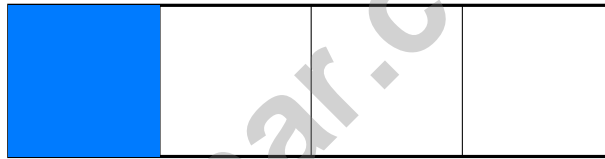


4)

Count the unit squares in the grid shown. What is the area?

- A. 4 square units                       C. 8 square units  
 B. 6 square units                       D. 10 square units

5) Look at the picture. The rectangle is divided into equal parts, and some parts are shaded.



Which fraction is shaded?

- A.  $\frac{1}{4}$                                        C.  $\frac{3}{4}$   
 B.  $\frac{4}{1}$                                        D.  $\frac{2}{4}$

6) A factory packages 90 toys equally into 9 crates. They ship away 4 crates. How many toys remain?

- A. 45                                       C. 55  
 B. 60                                       D. 50



## 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.OA.A.2)**  $18 \div 3 = 6$ . Divide the total number of pencils by the number of boxes.
- 2) **Choice B is correct.** **(3.NF.A.2)**  $\frac{2}{6}$  is between  $\frac{1}{6}$  (tick 1) and  $\frac{3}{6}$  (tick 3). It's the middle tick.
- 3) **Choice D is correct.** **(3.OA.B.5)**  $6 \times 3 = 18$ . Options A, B, and C all equal 18. But  $4 \times 3 + 2 = 12 + 2 = 14$ , which does not equal 18.
- 4) **Choice A is correct.** **(3.MD.B.3)** Ava:  $5 \times 2 = 10$ . Noah:  $3 \times 2 = 6$ . Difference:  $10 - 6 = 4$ .
- 5) **Choice D is correct.** **(3.NF.A.3c)** Circle A is completely shaded =  $\frac{1}{1} = 1$  whole. Circle B is only half shaded.
- 6) **Choice C is correct.** **(3.MD.B.4)** Add all X's:  $2 + 3 + 2 + 1 = 8$  pencils total.
- 7) **Choice C is correct.** **(3.MD.C.7)** A square with side 5 has area  $5 \times 5 = 25$  square meters.
- 8) **The correct answer is  $\frac{1}{4}$ .** **(3.NF.A.1)** One piece out of 4 equal pieces is  $\frac{1}{4}$ .
- 9) **Choice D is correct.** **(3.OA.D.9)** Even  $\times$  even = even, and even  $\times$  odd = even. Only odd  $\times$  odd = odd.
- 10) **The correct answer is 2800 g.** **(3.MD.A.2)** Convert: 2 kg = 2000 g. Add:  $2000 + 500 + 300 = 2800$  g.
- 11) **Choice B is correct.** **(3.MD.A.1)** The minute hand points to 36 minutes, just past the 7. The hour hand is between 6 and 7, closer to 7. The time is 6 : 36.
- 12) **Choice C is correct.** **(3.MD.C.6)**  $5 \times 7 = 35$  unit squares.
- 13) **Choices D are correct.** **(3.G.A.2)** Circle Q is divided into 6 equal parts by six equal-angle lines from the center. Circle P has unequal angles (not 90 degrees each). Circle R also has unequal angles.
- 14) **Choice D is correct.** **(3.OA.A.1)**  $8 \times 3$  means 8 groups of 3, so  $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 24$ . Both equal 24.
- 15) **Choice D is correct.** **(3.OA.A.4)** Divide:  $28 \div 4 = 7$ . Check:  $7 \times 4 = 28$ .
- 16) **Choice B is correct.** **(3.MD.C.5b)**  $7 \times 5 = 35$  square units.
- 17) **The correct answer is 7.** **(3.OA.B.6)**  $42 \div 6 = 7$  because  $7 \times 6 = 42$ . The multiplication fact helps us solve the division problem.
- 18) **Choice B is correct.** **(3.NBT.A.3)** The chart shows 6 tens and 0 ones, which is  $6 \times 10 = 60$ .
- 19) **Choice C is correct.** **(3.NBT.A.1)** The tens digit is 5. Since  $5 \geq 5$ , round up: 156 rounds to 200.
- 20) **Choice A is correct.** **(3.OA.D.8)** Step 1: Marbles per group:  $42 \div 7 = 6$  marbles. Step 2: Lose from one group:  $6 - 3 = 3$  marbles.
- 21) **Choice C is correct.** **(3.G.A.1)** By definition, a parallelogram has two pairs of opposite sides that are parallel. Not all parallelograms have right angles or equal sides.
- 22) **Choice B is correct.** **(3.MD.C.7d)** Add the areas:  $16 + 12 = 28$  square units.
- 23) **Choice A is correct.** **(3.NBT.A.2)** Subtract to find the missing subtrahend:  $500 - 274 = 226$ . Check:  $500 - 226 = 274$ . Distractors: B (repeated problem), C (off-by-100), D (off-by-6).
- 24) **Choice B is correct.** **(3.MD.C.5)** Area must be measured in square units because it describes 2D space. Square feet, square inches, square meters, and square centimeters are all correct area units.
- 25) **Choice B is correct.** **(3.NF.A.2a)** Six tick marks create five equal segments. The unit fraction is  $\frac{1}{5}$ .
- 26) **Choice A is correct.** **(3.NF.A.2b)** The distance from  $\frac{5}{8}$  to  $\frac{8}{8}$  is  $\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$ , or 3 eighths.
- 27) **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.
- 28) **Choice B is correct.** **(3.MD.C.5a)** A  $6 \times 1$  grid contains exactly 6 unit squares arranged in a row.
- 29) **Choice A is correct.** **(3.NF.A.3b)** Both rectangles show the same shaded amount.  $\frac{1}{3} = \frac{2}{6}$  because  $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$ .
- 30) **Choice A is correct.** **(3.MD.C.7c)** Multiply the outside number by each part inside, then add.

### Practice Test 2 Answers and Explanations



## Ahoy, Math Sailor!

◇ You sailed through 5 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 5 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

# Build Skills. Boost Confidence.

## Excel in Grade 3 Math!

This book provides 5 full-length Grade 3 math practice tests that follow standards and help students achieve real results.



### 5 Full-Length Practice Tests

Realistic tests to build stamina and familiarity.



### Standards-Aligned Practice

Questions match Grade 3 math standards and key skills.



### Answer Keys & Explanations

Detailed answers that show steps and clear reasoning.



### Review & Master Skills

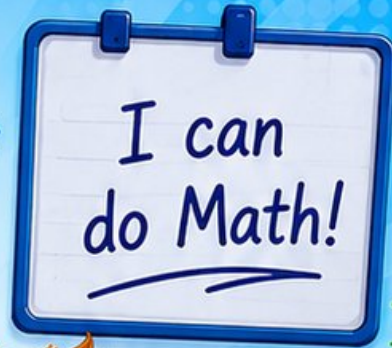
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- ✓ Data & Graphs
- ✓ Word Problems
- ✓ And More!



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

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

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



Everything Your Child Needs to Succeed in Grade 3 Math!



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Classroom Learning



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Test Preparation



Extra Practice & Review