

7

Montana

MAST

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



$$\begin{array}{r} 248 \\ + 157 \\ \hline 405 \end{array}$$



$4 \times 6 = 24$

$2 + 3 = 5$



7 Montana MAST 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 Montana MAST. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

Montana has big-sky ranges, ranch roads, glacier views, open plains, and wide thinking space, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and use space on the page to show clear thinking.

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 Montana students, each trail moves through big-sky ranges, ranch roads, glacier views, open plains, and wide thinking space: 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 Montana Grade 3 standards connect to practice. | Understand the skills behind the questions. |

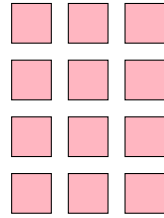
Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Montana MAST path.



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For more practice
& answers

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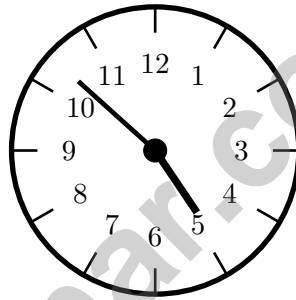


1)

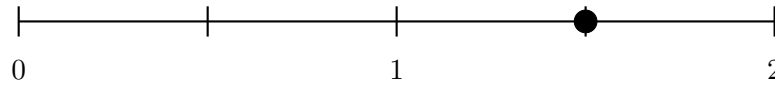
How many small squares are in this grid?

 A. 15 C. 10 B. 7 D. 12

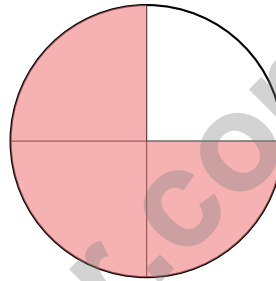
2) Look at the clock. What time does it show?

 A. 5 : 26 C. 9 : 20 B. 4 : 52 D. 9 : 523) What is $54 \div 6$? A. 8 C. 10 B. 11 D. 9

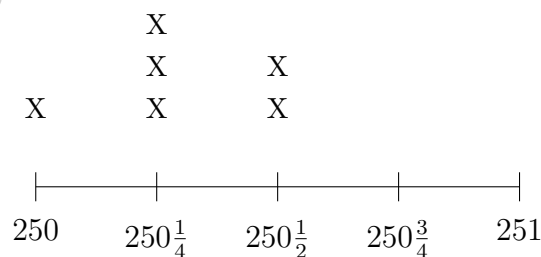
- 4) A number line goes from 0 to 2 with 4 equal parts. What number is marked by the dot?



- A. $\frac{1}{2}$
 C. $\frac{3}{2}$
 B. 1
 D. $1\frac{1}{2}$
- 5) A circle is divided into 4 equal parts. If 3 parts are shaded, what fraction of the circle is NOT shaded?



- A. $\frac{1}{4}$
 C. $\frac{3}{4}$
 B. $\frac{2}{4}$
 D. $\frac{4}{4}$
- 6) Lily's line plot shows water bottle volumes in milliliters: 250 , $250\frac{1}{4}$, $250\frac{1}{2}$, $250\frac{3}{4}$, 251 (using quarters).



How many bottles have a volume of $250\frac{1}{4}$ milliliters?

- A. 1
 C. 3
 B. 2
 D. 4



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7) A rectangle is covered by 4 rows of 8 unit squares. How many unit squares cover it?

- A. 12 unit squares C. 24 unit squares
 B. 32 unit squares D. 36 unit squares

8) Round 283 to the nearest 10.

- A. 280 C. 290
 B. 283 D. 300

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

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

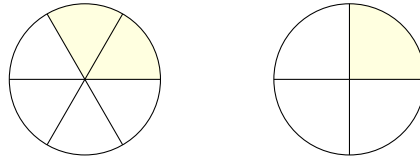
10) Zoe has 72 marbles. She divides them equally into 8 bags. Then she gives 3 bags to her friend. How many marbles does Zoe keep?

- A. 9 C. 45
 B. 27 D. 72

11) Mia's desk is rectangular with length 7 feet and width 3 feet. Using repeated addition ($3 + 3 + 3 + 3 + 3 + 3 + 3$), find the area.



- 1) Look at the two identical circles. Circle 1 shows $\frac{2}{6}$ shaded. Which fraction is equivalent to $\frac{2}{6}$?



Circle 1: $\frac{2}{6}$ shaded Circle 2: $\frac{1}{4}$ shaded

- A. $\frac{1}{3}$ C. $\frac{3}{6}$
 B. $\frac{2}{4}$ D. $\frac{1}{4}$
- 2) Round 267 to the nearest 10.
- A. 260 C. 270
 B. 267 D. 300
- 3) On a number line from 0 to 1, the first tick is very small and close to zero. Which unit fraction makes sense?
- A. $\frac{1}{2}$ C. $\frac{1}{8}$
 B. $\frac{1}{3}$ D. $\frac{1}{1}$
- 4) A classroom floor is 5 feet wide and 8 feet long. If the teacher covers it with square foot tiles, how many tiles are needed? Show your thinking by drawing or writing.



5) A candy bar is divided into 4 equal pieces. What is the fraction name for one piece?

A. $\frac{1}{4}$

B. $\frac{4}{4}$

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

D. $\frac{4}{1}$

6) Ava has 72 stickers. She puts them in albums with 8 stickers on each page. How many pages does she fill?

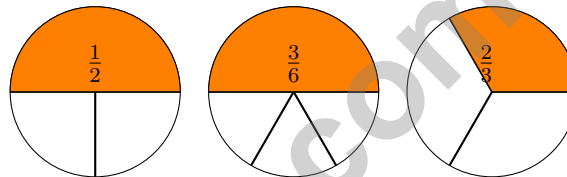
A. 8 pages

B. 12 pages

C. 10 pages

D. 9 pages

7) Look at the pie charts. Which fraction does NOT match the group?



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

B. $\frac{3}{6}$

C. $\frac{2}{3}$

D. All match

8) Noah has 16 pencils. He puts them into 4 boxes equally. Which division equation shows this?

A. $4 \times 4 = 16$

B. $16 + 4 = 20$

C. $16 - 4 = 12$

D. $16 \div 4 = 4$

9) Ava eats lunch at noon. Recess starts 25 minutes after lunch. What time does recess start?

A. 12 : 25 PM

B. 12 : 15 PM

C. 1 : 00 PM

D. 1 : 25 PM



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1) A number line from 0 to 1 is divided into equal parts. Which first tick is closest to 0?

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

B. $\frac{1}{4}$

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

D. $\frac{1}{8}$

2) Which fraction equals 1 whole?

A. $\frac{2}{4}$

B. $\frac{3}{3}$

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

D. $\frac{1}{4}$

3) Which number is missing from the multiplication fact family? $_ \times 5 = 35$

A. 6

B. 9

C. 8

D. 7

4) Lily sees $(3 \times 2) \times 4$. She wants to find the answer using a different grouping. Which equation correctly finds the same product?

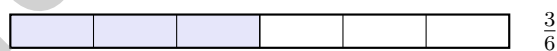
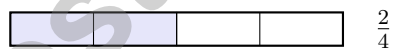
A. $3 + (2 \times 4) = 11$

B. $3 \times 2 \times 4 = 9$

C. $(3 + 2) \times 4 = 20$

D. $3 \times (2 \times 4) = 24$

5) Look at the bars. Are $\frac{2}{4}$ and $\frac{3}{6}$ equivalent?


 A. Yes, they are equivalent

 B. No, they are not equivalent

 C. The first is larger

 D. The second is larger

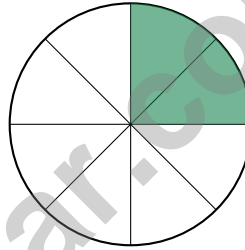

6) Which statement is true about the products of even and odd numbers?

- A. Even \times odd is always odd C. Even \times odd is always even
 B. Even \times even is always odd D. Odd \times odd is always even

7) A 8×5 rectangle is tiled into two smaller rectangles by a horizontal line. If one rectangle is 8×3 , what is the area of the other?

- A. 16 C. 40
 B. 24 D. 14

8) A pizza is cut into 8 equal slices. Noah eats 2 slices. What fraction of the pizza does Noah eat?



- A. $\frac{1}{8}$ C. $\frac{3}{8}$
 B. $\frac{2}{8}$ D. $\frac{6}{8}$

9) $\frac{3}{4} = \frac{?}{8}$. What is the missing numerator?

- A. 4 C. 6
 B. 5 D. 7



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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

- 1) **Choice D is correct.** **(3.OA.1)** The grid has 3 columns and 4 rows of small squares. So $3 \times 4 = 12$ squares.
- 2) **Choice B is correct.** **(3.MD.1)** The minute hand points to 52 (just before the 11), and the hour hand is between 4 and 5. The time is 4 : 52.
- 3) **Choice D is correct.** **(3.OA.6)** $54 \div 6 = \square$ means $\square \times 6 = 54$. Since $9 \times 6 = 54$, the answer is 9.
- 4) **Choice D is correct.** **(3.NF.2)** The line from 0 to 2 is cut into 4 equal steps, so each step is $\frac{1}{2}$. The third tick is $1\frac{1}{2}$.
- 5) **Choice A is correct.** **(3.G.2)** If 3 out of 4 parts are shaded, then 1 part is not shaded, which is $\frac{1}{4}$.
- 6) **Choice C is correct.** **(3.MD.4)** Count the X's directly above the $250\frac{1}{4}$ mark. There are three X's stacked there.
- 7) **Choice B is correct.** **(3.MD.5)** 4 rows of 8 unit squares gives $4 \times 8 = 32$ unit squares.
- 8) **Choice A is correct.** **(3.NBT.1)** The ones digit is 3. Since $3 < 5$, round down: 283 rounds to 280.
- 9) **Choice C is correct.** **(3.NF.1)** Folding a sheet into 2 equal parts creates two halves, each one is $\frac{1}{2}$.
- 10) **Choice C is correct.** **(3.OA.8)** Step 1: Divide: $72 \div 8 = 9$ marbles per bag. Step 2: Remaining bags: $8 - 3 = 5$ bags; kept marbles: $5 \times 9 = 45$ marbles. (Choice A is step 1 only; choice B is incorrect calculation.)
- 11) **The correct answer is 21 square feet.** **(3.MD.7)** $3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$, which matches $7 \times 3 = 21$ square feet.
- 12) **Choice D is correct.** **(3.OA.2)** "How many groups of 4" is a measurement division problem. Divide 16 by 4 to find the number of groups.
- 13) **Choice A is correct.** **(3.NF.3)** The bars show the same shaded amount. $\frac{2}{8}$ and $\frac{1}{4}$ are equivalent.
- 14) **Choice A is correct.** **(3.G.1)** The two red sides run in the same direction and will never meet. This makes them parallel.
- 15) **Choice A is correct.** **(3.MD.7)** Total area is 24. Left part is 9. Right part is $24 - 9 = 15$, which equals 3×5 .
- 16) **Choices B and C are correct.** **(3.MD.8)** Area of a rectangle = length \times width = $8 \times 5 = 40$ square feet. Choice E is false because 8×5 equals 40, not 45. Perimeter is found by adding all four sides.
- 17) **Choice A is correct.** **(3.MD.5)** Count: 5 units wide and 3 units tall. $5 \times 3 = 15$ square units.
- 18) **Choice B is correct.** **(3.MD.3)** Read the height of each bar on the vertical axis by counting the grid lines.
- 19) **Choice A is correct.** **(3.G.2)** When numerator = denominator, you have all the parts of one whole. $\frac{4}{4}$ has 4 fourths, which makes 1 whole.
- 20) **Choice D is correct.** **(3.OA.3)** First multiply to find total buttons: 4 bags \times 6 buttons per bag = 24 buttons. Then divide by buttons per bracelet: $24 \div 8 = 3$ bracelets.
- 21) **The correct answer is 32 square units.** **(3.MD.8)** Count by rows and columns: $4 \times 8 = 32$ square units.
- 22) **Choice D is correct.** **(3.OA.9)** List B increases by 1, then 2, then 3, then 4 (no constant rule). The others are skip-count patterns.
- 23) **Choice B is correct.** **(3.NF.3)** The dot is positioned at the third quarter mark on the number line, which is $\frac{3}{4}$. This is greater than $\frac{1}{2}$.
- 24) **Choice C is correct.** **(3.NBT.3)** The area model shows 4 groups of (6×10) . Adding: $60 + 60 + 60 + 60 = 240$. Or: $(4 \times 6) \times 10 = 24 \times 10 = 240$.
- 25) **The correct answer is 12 unit squares.** **(3.MD.6)** The rectangle is 6 units wide and 2 units tall: $6 \times 2 = 12$ unit squares.
- 26) **Choice D is correct.** **(3.OA.4)** Divide: $32 \div 4 = 8$ stickers per friend.
- 27) **Choice A is correct.** **(3.NF.1)** Option A has 6 equal parts (7 ticks including 0 and 1). Option B has only 4 parts.
- 28) **Choice A is correct.** **(3.NBT.2)** For $405 - 189$, the standard algorithm with regrouping (forming 3 hundreds 9 tens from 4 hundreds 0 tens) is most direct. Count-up (C) requires many jumps; estimation (D) loses precision; place-value (B) requires tracking three separate subtractions. The algorithm minimizes errors for this problem.
- 29) **Choice A is correct.** **(3.NF.3)** Both rectangles show the same shaded area. $\frac{3}{4} = \frac{6}{8}$ because $\frac{3 \times 2}{4 \times 2} = \frac{6}{8}$.
- 30) **Choice C is correct.** **(3.MD.2)** Multiply: $3 \times 200 = 600$ mL.



Star Player Pep Talk

Hi, Star Player!

◇ 7 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 7 tests. It's real now! ★

Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

Star tip: on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

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

Jay Daie

Your Math Coach

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



EACH PRACTICE TEST INCLUDES:



Standards-
Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
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