

9

Montana MAST

GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY

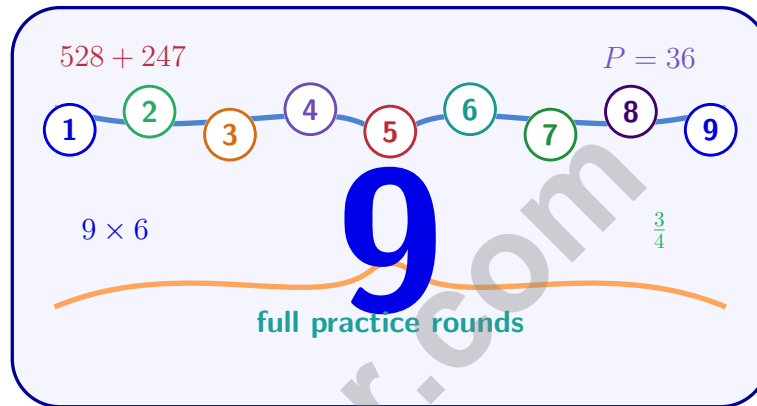


10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 Montana MAST Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Montana, Start Your Nine-Round Math Climb

A curious Grade 3 challenge from first try to confident finish

This book gives you nine chances to practice like a thoughtful Montana MAST test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Montana has big-sky ranges, ranch roads, glacier views, open plains, and wide thinking space, where careful steps matter. Strong math follows that same idea: reason what the question asks, choose a useful tool, show the work, and estimate before moving on.

Your Montana Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear Montana review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In Montana, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with MAST support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A Montana standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.

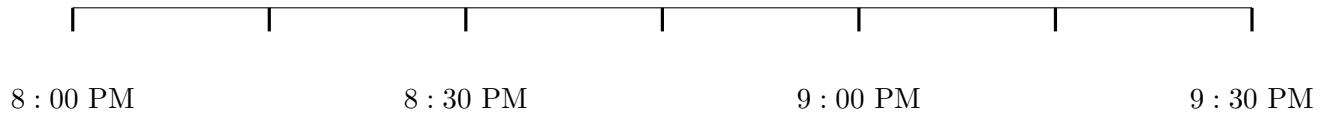


Scan me!
For more practice
& answers

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1) Look at this number line showing times.



How many minutes pass from 8 : 00 PM to 9 : 00 PM?

- A. 30 minutes C. 90 minutes
 B. 60 minutes D. 120 minutes

2) Add $375 + 248$ using the standard algorithm (aligning by place value).

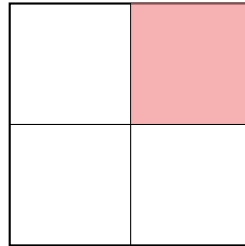
3) Eli makes baskets with 10 apples in each basket. If Eli makes 8 baskets, how many apples are needed?

- A. 18 (added instead of multiplied) C. 810 (digit concatenation)
 B. 80 D. 800 (added two zeros)

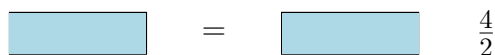
4) What fraction is the third tick on a number line split into 4 equal parts?



- 5) A rectangle is divided into 2 equal parts vertically. Then it is divided into 2 equal parts horizontally making 4 smaller equal parts. What fraction is one small part?



- A. $\frac{1}{2}$ C. $\frac{1}{3}$
 B. $\frac{1}{4}$ D. $\frac{2}{4}$
- 6) Sam plants 7 rows of tomato seeds with 8 seeds in each row. Some seeds do not grow and only 50 seeds sprout. How many seeds did not sprout?
- A. 6 C. 15
 B. 8 D. 56
- 7) A rectangular kitchen counter is 10 feet long and 3 feet deep. What is the area of the counter?
- A. 26 sq ft C. 13 sq ft
 B. 60 sq ft D. 30 sq ft
- 8) Look at the bar diagram. It shows $\frac{4}{2}$. What whole number does this equal?


$$\text{Bar Diagram} = \frac{4}{2}$$

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

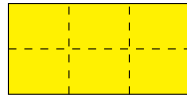


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1) Sam reads for 26 minutes starting at 6 : 19 PM. What time does Sam finish reading?

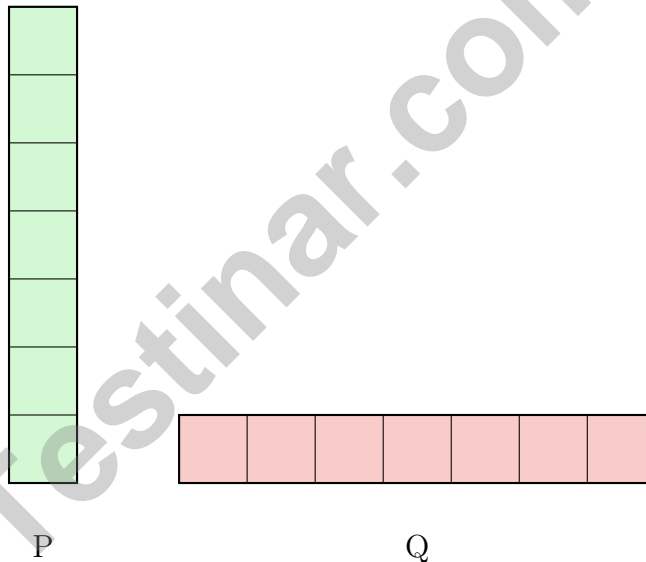
- A. 6 : 35 PM
- B. 6 : 40 PM
- C. 6 : 45 PM
- D. 6 : 50 PM

2)



This rectangle is divided into equal parts. How many parts are there?

- A. 8 parts
- B. 4 parts
- C. 5 parts
- D. 6 parts



3)

Shape P is 1 unit by 7 units. Shape Q is 7 units by 1 unit. How do their areas compare?

- A. P is bigger
- B. Q is bigger
- C. They are equal
- D. Cannot be determined

4) What is $28 \div 4$?

A. 6

C. 8

B. 7

D. 4

5) A rectangle has parts with areas 24 and 18. What is the total area?



6) A shape is made of two rectangles. Rectangle 1 has area 12 sq units, and Rectangle 2 has area 15 sq units. What is the total area?

A. 15 sq units

C. 27 sq units

B. 24 sq units

D. 180 sq units

7) $567 + 216 = ?$

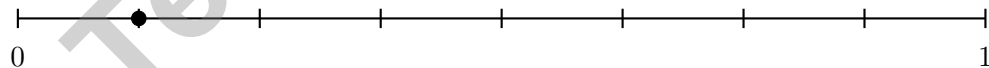
A. 783

C. 873

B. 792

D. 793

8) Which statement about $\frac{1}{8}$ on an 8-part number line is FALSE?



A. $\frac{1}{8}$ is at the first tick

C. $\frac{1}{8}$ equals $\frac{2}{4}$

B. $\frac{1}{8}$ is closer to 0 than 1

D. $\frac{1}{8}$ is one equal part out of eight



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& answers

1) Which multiplication fact is true?

A. $7 \times 6 = 48$

C. $9 \times 4 = 36$

B. $8 \times 6 = 42$

D. $5 \times 9 = 50$

2) What is 513 rounded to the nearest 10?

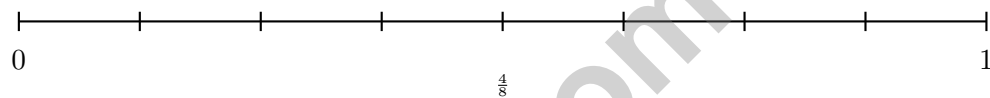
A. 500

C. 513

B. 520

D. 510

3) On a number line from 0 to 1 divided into 8 equal parts, which two fractions name the same point?



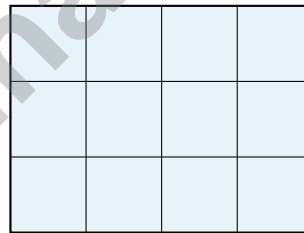
A. $\frac{1}{2}$ and $\frac{4}{8}$

C. $\frac{3}{8}$ and $\frac{5}{8}$

B. $\frac{2}{8}$ and $\frac{3}{8}$

D. $\frac{2}{4}$ and $\frac{6}{8}$

4)



How many unit squares cover the rectangle shown in the grid?



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5) Jasmine collects 24 stickers and her sister gives her 12 more. If they arrange the stickers into 4 equal groups, how many stickers are in each group?

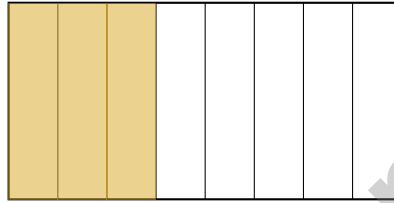
A. 6

C. 9

B. 8

D. 36

6) A rectangle is divided into 8 equal parts. Noah shades $\frac{3}{8}$ of the rectangle. How many parts does he shade?



A. 2 parts

C. 4 parts

B. 3 parts

D. 5 parts

7) If a number line from 0 to 3 is divided into thirds, how many thirds tall is the entire line?

8) Mia makes 28 cookies and puts 4 cookies on each plate. How many plates does she use?

A. 7

C. 32

B. 8

D. 24



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 B is correct.** **(3.MD.1)** One hour is 60 minutes.
- The correct answer is 623.** **(3.NBT.2)** Ones: $5 + 8 = 13$ (write 3, carry 1). Tens: $7 + 4 + 1 = 12$ (write 2, carry 1). Hundreds: $3 + 2 + 1 = 6$. Final answer: 623.
- Choice B is correct.** **(3.NBT.3)** 8 baskets with 10 apples each = $8 \times 10 = 80$ apples. You multiply $8 \times 1 = 8$, then multiply by 10 to get 80.
- The correct answer is $\frac{3}{4}$.** **(3.NF.2)** The third tick out of 4 equal parts is $\frac{3}{4}$.
- Choice B is correct.** **(3.G.2)** One vertical line and one horizontal line create 4 equal parts. One part is $\frac{1}{4}$.
- Choice A is correct.** **(3.OA.8)** Step 1: Find total seeds: $7 \times 8 = 56$ seeds. Step 2: Subtract sprouted seeds: $56 - 50 = 6$ seeds did not sprout. (Choice D is step 1 only; choice C is incorrect subtraction.)
- Choice D is correct.** **(3.MD.8)** Area = length \times width = $10 \times 3 = 30$ square feet.
- Choice B is correct.** **(3.G.2)** The bar shows 4 halves. 4 halves make 2 whole units. $\frac{4}{2} = 2$.
- Choice B is correct.** **(3.NF.2)** $\frac{12}{6} = 2$. Eli lands exactly at the whole number 2.
- Choice B is correct.** **(3.MD.5)** Add all three parts: $10 + 6 + 6 = 22$ square units.
- Choice B is correct.** **(3.MD.3)** First bar: $4 \times 5 = 20$. Second bar: $2 \times 5 = 10$. Difference: $20 - 10 = 10$.
- Choice C is correct.** **(3.MD.6)** Area = $9 \times 4 = 36$ square decimeters.
- Choice D is correct.** **(3.G.1)** The word “quadrilateral” means “four sides.” All quadrilaterals, whether squares, rectangles, or trapezoids, have exactly 4 sides.
- Choice D is correct.** **(3.OA.2)** $18 \div 6 = 3$. The picture shows 6 equal groups, each with 3 items.
- Choice D is correct.** **(3.OA.1)** 5 pots with 6 flowers each means 5 groups of 6. So $5 \times 6 = 30$ flowers.
- Choice B is correct.** **(3.NBT.1)** Numbers from 45 to 54 round to 50. Choice A (48) rounds to 50, but is not between 50–60. Choice B (52) is in range 50–60 and rounds to 50 (ones digit $2 < 5$). Choice C (56) rounds to 60. Choice D is 60 itself, rounds to 60.
- Choices A and C are correct.** **(3.OA.7)** A: $48 \div 6 = 8$ and $8 \times 6 = 48$ match. B: $35 \div 7 = 5$, not 4. C: $56 \div 8 = 7$ and $7 \times 8 = 56$ match. D: $30 \div 5 = 6$ but $6 \times 5 = 30$, not 25. E: $45 \div 9 = 5$ but $5 \times 9 = 45$, not 40.
- Choice D is correct.** **(3.OA.4)** Multiply: $7 \times 3 = 21$. Check: $21 \div 3 = 7$.
- Choice B is correct.** **(3.NF.3)** Same numerator (2): two halves = 1 whole, two thirds = part of a whole. Halves are bigger pieces than thirds. Rule: same numerator, smaller denominator ($2 < 3$) means bigger pieces, so $\frac{2}{2} > \frac{2}{3}$.
- Choice D is correct.** **(3.NF.2)** $\frac{1}{3} = \frac{2}{6}$. They represent the same position on a number line.
- Choice C is correct.** **(3.NF.3)** Multiply numerator and denominator by 4: $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$.
- Choice D is correct.** **(3.OA.9)** Even numbers increase by 2: 2, 4, 6, 8, etc.
- Choice B is correct.** **(3.MD.7)** Both smaller rectangles share width 5. Heights are 2 and 4, totaling 6. The distributive property gives $5 \times (2 + 4) = 30$.
- Choice C is correct.** **(3.MD.5)** Count the rows: 3 rows. Count across: 9 unit squares per row. Total: $9 + 9 + 9 = 27$ square units cover the carpet.
- The correct answer is 25 unit squares.** **(3.MD.6)** A square with side length 5 inches has area $5 \times 5 = 25$ square inches, which equals 25 unit squares.
- Choice A is correct.** **(3.NF.1)** The circle is divided into 2 equal parts. One part is shaded, so the unit fraction is $\frac{1}{2}$ (one-half).
- Choice A is correct.** **(3.OA.6)** $21 \div 3 = \square$ asks: $\square \times 3 = 21$. Since $7 \times 3 = 21$, the answer is 7.
- Choice A is correct.** **(3.MD.7)** Area = $8 \times 3 = 24$ square feet.
- Choice A is correct.** **(3.NF.1)** Four internal tick marks create 5 equal parts total. The first tick is at the unit fraction $\frac{1}{5}$.
- Choice A is correct.** **(3.MD.2)** On Scale 1, the left side is 500 g and the right side is 400 g, so the left side weighs more. On Scale 2, both sides are equal.



Ahoy, Math Sailor!

◇ You sailed through 9 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 9 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

STRONG TODAY. SUCCESS TOMORROW.

Give your child the tools they need to excel in **Grade 3 Math!** This book includes **9 complete practice tests** that follow grade-level standards and help students build confidence, sharpen skills, and achieve success.

9
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Aligned to Standards



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