

# 5 Missouri

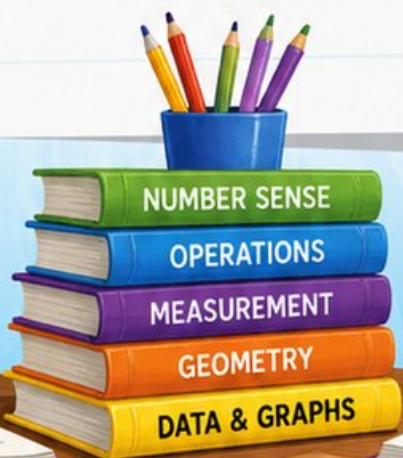
## MAP

### GRADE 3

# MATH

## PRACTICE TESTS

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



**5** FULL-LENGTH  
PRACTICE TESTS



STANDARDS-  
ALIGNED  
PRACTICE



DETAILED  
ANSWER KEYS



CLEAR  
EXPLANATIONS  
TO HELP YOU SUCCEED



3



$$\begin{array}{r} 125 \\ + 37 \\ \hline \end{array}$$



$$24 \div 3 = 8$$

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

Missouri has river crossings, city arches, cave paths, and Ozark trails that reward flexible thinking. 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 Missouri 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.

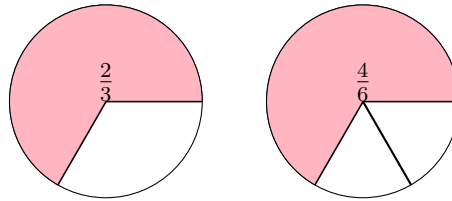


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& answers

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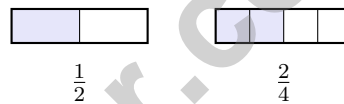
1) Look at the pies. Are  $\frac{2}{3}$  and  $\frac{4}{6}$  equivalent?



- A. Yes, they are equivalent       C. No, the second is larger  
 B. No, the first is larger       D. They are different fractions

2) What whole number is  $\frac{6}{6}$ ?

- A. 6       C. 1  
 B. 0       D. 3



3)

Are these fractions equal?

- A. Yes, they are equal       C. No,  $\frac{2}{4}$  is larger  
 B. No,  $\frac{1}{2}$  is larger       D. Cannot tell

4) Lily's garden is T-shaped. Top rectangle: 4 m by 2 m. Bottom left: 2 m by 3 m. Bottom right: 2 m by 3 m. What is the total area?

- A. 8 sq m       C. 12 sq m  
 B. 20 sq m       D. 24 sq m

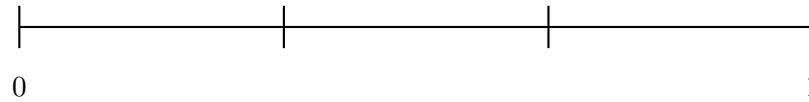


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5) A rectangle has a length of 10 cm and a width of 2 cm. Which answer shows its area?

- A. 12 sq cm                       C. 20 sq cm  
 B. 24 sq cm                       D. 30 sq cm

6) On a number line from 0 to 1 with 3 equal parts, which fraction is NOT a tick mark?



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

7) Which problem does *not* equal 180?

- A.  $9 \times 20$  (equals 180)                       C.  $18 \times 10$  (equals 180)  
 B.  $6 \times 30$  (equals 180)                       D.  $3 \times 50$  (equals 150, not 180)

8) Which fraction is equivalent to  $\frac{1}{3}$ ?

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

9) A bakery made some cupcakes. It sold 312 cupcakes and has 188 left. How many cupcakes did the bakery make?

- A. 500                                           C. 490  
 B. 510                                           D. 520



10) There are 6 baskets with apples. Each basket has 7 apples. How many apples are there?

A. 42

C. 48

B. 36

D. 13

11) Lily divides two number lines. One is divided into halves and another is divided into fourths. How many more fourths than halves are there in the same interval?

A. 2 more

C. The same

B. 1 more

D. 2 fewer

12) What number makes the equation true?

$$\square \times 4 = 28$$

A. 6

C. 24

B. 32

D. 7

13) Which statements correctly describe this problem?  $4 \times (6 \times 2) = (4 \times 6) \times 2$ . Select the two correct answers.

A. Commutative property

B. Associative property

C. Distributive property

D. Identity property

E. The grouping of factors changed, showing the associative property

14) Mia writes this list of odd numbers: 1, 3, 5, 7, 9

What is the next odd number in the pattern?

A. 10

C. 12

B. 13

D. 11



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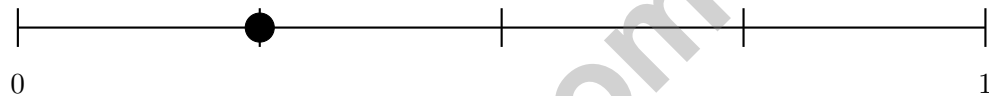
1) Look at the fact family for 3, 6, and 18. Which shows TWO correct related facts?

- 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  $20 \div 3 = 6$

2) Which fraction is NOT equivalent to  $\frac{2}{6}$ ?

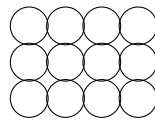
- A.  $\frac{1}{3}$ 
 C.  $\frac{1}{2}$   
 B.  $\frac{2}{8}$ 
 D.  $\frac{2}{3}$

3) A number line shows the distance from 0 to 1 split into 4 equal parts. Where is  $\frac{1}{4}$  located?



- A. At the first tick mark
  C. At the third tick mark  
 B. At the second tick mark
  D. At the fourth tick mark

4) What is 389 rounded to the nearest 10?



5)

This array shows 3 rows of 4 circles each. What is  $3 \times 4$ ?

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



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& answers

6) In a multiplication table, the diagonal from top-left goes:  $1 \times 1 = 1$ ,  $2 \times 2 = 4$ ,  $3 \times 3 = 9$ ,  $4 \times 4 = 16$ ,  $5 \times 5 = 25$ .

What pattern do you see?

- A. All numbers are even  
 B. Numbers increase by 5  
 C. All products are even  
 D. Numbers are perfect squares

7) A soup recipe needs 2000 mL of broth. Ben has 1500 mL. How much more broth does he need?

- A. 400 mL  
 B. 500 mL  
 C. 1000 mL  
 D. 1500 mL

8) Noah finishes dinner at 6 : 11 PM. He finishes 26 minutes after starting. What time did Noah start eating dinner?

- A. 5 : 45 PM  
 B. 5 : 55 PM  
 C. 6 : 00 PM  
 D. 6 : 37 PM

9) Aiden buys 6 packs of trading cards with 4 cards in each pack. He loses 8 cards. How many cards does he have now?

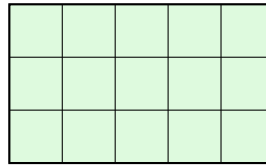
- A. 16  
 B. 22  
 C. 24  
 D. 32

10) What is  $2 \times 80$ ?

- A. 28 (added instead of multiplied)  
 B. 1600 (added two zeros)  
 C. 160  
 D. 82 (swapped and forgot zero)



- 1) How many unit squares (each 1 inch by 1 inch) cover a rectangle that is 5 inches long and 3 inches wide?



5 inches

- A. 8 unit squares
- B. 12 unit squares
- C. 15 unit squares
- D. 20 unit squares
- 2) What number makes the equation true?
- $\square \div 3 = 7$
- A. 18
- B. 20
- C. 24
- D. 21
- 3) Ava buys 4 packs of crayons with 9 crayons in each pack. She already has 7 crayons. Let  $c$  be the total number of crayons. Which equation shows how to find  $c$ ?
- A.  $c = 4 + 9 + 7$
- B.  $c = 9 + 7 - 4$
- C.  $c = 4 \times 9 \times 7$
- D.  $c = (4 \times 9) + 7$
- 4) A soup recipe needs 1 liter of broth. Lily already poured 750 mL. How much more does she need in milliliters?
- A. 100 mL
- B. 150 mL
- C. 250 mL
- D. 500 mL



Scan me!  
For more practice  
& answers

5) Sam's swim practice starts at 4 : 30 PM and ends at 5 : 42 PM. How many minutes is the practice?

- A. 60 minutes                       C. 72 minutes  
 B. 70 minutes                       D. 75 minutes

6) How many stars are there? Skip count by 10s to find the total.

3 groups of 10 =  $3 \times 10 = ?$



- A. 13                                       C. 31  
 B. 103                                    D. 30

7) Lily knows that  $3 \times 6 = 18$ . How does this help her find  $3 \times 7$ ?

- A. Add 3 to get  $18 + 3 = 21$                        C. Add 7 to get  $18 + 7 = 25$   
 B. The answer is 18                                       D. Multiply 18 by 7

8) Complete the fact family:

$$5 \times 7 = 35 \quad 7 \times 5 = 35 \quad 35 \div 5 = \square \quad 35 \div 7 = \square$$

- A. 7 and 5                                       C. 35 and 35  
 B. 5 and 7                                       D. 10 and 10

9) Which is NOT equal to a whole number?

- A.  $\frac{20}{4}$                                                C.  $\frac{3}{2}$   
 B.  $\frac{7}{1}$                                                D.  $\frac{8}{8}$



## 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 A is correct.** **(3.NF.A.3)** Both pies show the same shaded amount.  $\frac{2}{3}$  and  $\frac{4}{6}$  are equivalent.
- Choice C is correct.** **(3.NF.A.3c)** A fraction where numerator = denominator always equals 1.  $\frac{6}{6} = 1$ .
- Choice A is correct.** **(3.NF.A.3d)**  $\frac{1}{2}$  and  $\frac{2}{4}$  cover the same amount. They are equivalent fractions.
- Choice B is correct.** **(3.MD.C.7d)** Top:  $4 \times 2 = 8$  sq m. Bottom left:  $2 \times 3 = 6$  sq m. Bottom right:  $2 \times 3 = 6$  sq m. Total:  $8 + 6 + 6 = 20$  sq m.
- Choice C is correct.** **(3.MD.C.7)** Area =  $10 \times 2 = 20$  square cm.
- Choice D is correct.** **(3.NF.A.2)** The line is divided into thirds, so  $\frac{1}{4}$  is not a tick mark on this particular number line.
- Choice D is correct.** **(3.NBT.A.3)**  $9 \times 20 = 180$  (multiply  $9 \times 2 = 18$ , add zero),  $6 \times 30 = 180$  (multiply  $6 \times 3 = 18$ , add zero), and  $18 \times 10 = 180$ . But  $3 \times 50 = 150$  (multiply  $3 \times 5 = 15$ , add zero), so choice D does not equal 180.
- Choice B is correct.** **(3.NF.A.3b)** Multiply numerator and denominator by 2:  $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$ .
- Choice A is correct.** **(3.NBT.A.2)** Add to find the total:  $312 + 188 = 500$ . Ones:  $2 + 8 = 10$  (write 0, carry 1). Tens:  $1 + 8 + 1 = 10$  (write 0, carry 1). Hundreds:  $3 + 1 + 1 = 5$ .
- Choice A is correct.** **(3.OA.A.3)** Multiply:  $6 \text{ baskets} \times 7 \text{ apples per basket} = 42$  apples.
- Choice A is correct.** **(3.NF.A.2a)** There are 2 halves in the interval, but 4 fourths. So  $4 - 2 = 2$  more fourths.
- Choice D is correct.** **(3.OA.A.4)** Divide:  $28 \div 4 = 7$ . Check:  $7 \times 4 = 28$ .
- Choices B and E are correct.** **(3.OA.B.5)** This problem shows the associative property. When you group factors differently, like  $(4 \times 6) \times 2$  or  $4 \times (6 \times 2)$ , you still get the same product. Option B states the name correctly, and E restates what associative means. A is commutative (switching order), C is distributive (breaking apart a sum), and D relates to multiplying by 1.
- Choice D is correct.** **(3.OA.D.9)** Odd numbers go up by 2 each time. Add 2 to 9 to get 11.
- The correct answer is 36 sq cm.** **(3.MD.C.6)** Since it's a square, both rows and columns equal 6. Students should show repeated addition.
- Choice B is correct.** **(3.MD.B.4)** At  $5\frac{1}{2}$ , there is only 1 X. At 5 and 6 there are 2 each, and at  $5\frac{3}{4}$  there are 4.
- Choice C is correct.** **(3.OA.D.8)** Step 1: Students per bus originally:  $72 \div 8 = 9$  students. Step 2: The 6 new students join one bus, so that bus has  $9 + 6 = 15$  students.
- Choice B is correct.** **(3.MD.C.7b)** Area = width  $\times$  height =  $10 \times 8 = 80$  square inches.
- Choice D is correct.** **(3.MD.C.5a)** The grid is 5 units wide and 3 units tall:  $5 \times 3 = 15$  unit squares.
- The correct answer is 24 square units.** **(3.MD.C.5)** The rectangle has 4 rows of 6 unit squares.  $4 \times 6 = 24$  square units.
- Choice A is correct.** **(3.MD.A.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.
- The correct answer is 64.** **(3.OA.C.7)**  $8 \times 8 = 64$ . Eight groups of 8 equals 64.
- Choice A is correct.** **(3.MD.C.7c)** Splitting 6 into  $4 + 2$  and using the distributive property gives the same total area of 42.
- Choice D is correct.** **(3.MD.B.3)** Pile 1:  $4 \times 3 = 12$ . Pile 2:  $5 \times 3 = 15$ . Total:  $12 + 15 = 27$ .
- 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.
- Choice C is correct.** **(3.MD.A.1)** From 4 : 05 to 5 : 05 is 1 hour. From 5 : 05 to 5 : 28 is 23 minutes. Total: 1 hour 23 minutes.
- Choice A is correct.** **(3.OA.A.2)** The picture shows 12 items split into 6 equal groups. The division sentence is  $12 \div 6 = 2$ .
- Choice C is correct.** **(3.MD.C.5b)** Count one row of unit squares: 6 squares. Check: 4 rows  $\times$  6 per row = 24 total. So there are 6 unit squares in each row.
- Choice D is correct.** **(3.OA.A.1)**  $2 \times 9$  and  $9 \times 2$  both equal 18 by the commutative property of multiplication.
- Choice A is correct.** **(3.NBT.A.1)** The tens digit is 2. Since  $2 < 5$ , round down: 523 rounds to 500.



## Hi, Math Athlete!

◇ 5 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

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**Trainer tip:** on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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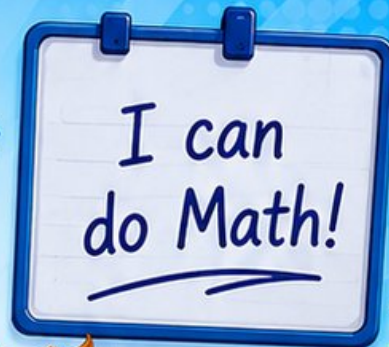
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$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

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

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



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