

+
★
10

=
Missouri
MAP



GRADE 3

△
MATH
◻

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PRACTICE TESTS

- ✓ Complete Standards Review
- ✓ Skill Practice
- ✓ Word Problems and Answer Key

2 × 7 + 4



★ ★ ★
**PREPARE
PRACTICE
SUCCEED!**
★ ★ ★



Aligned to
Grade 3 Math
Standards



Build Confidence
and Master
Math Skills



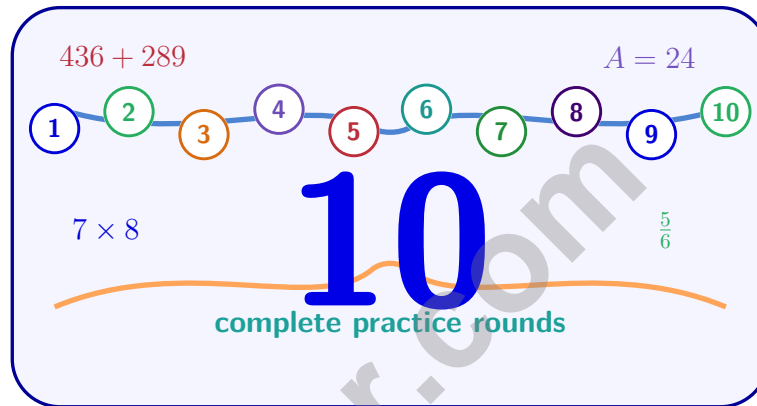
Test-Taking
Practice for
Success



Answer Key
for Easy
Review

10 Missouri MAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 practice rounds for MAP, built around gateway arches, river crossings, and strong strategy choices, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Missouri Math Explorer!

Ten steady rounds on the Show-Me State math route

This book gives you ten full Grade 3 practice tests for MAP. Each round uses gateway arches, river crossings, and strong strategy choices to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Missouri Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Missouri MAP review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Show-Me State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Ten tests, 300 questions, and a full MAP review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Missouri book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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& answers

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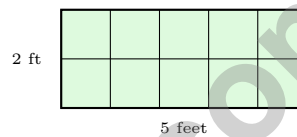
1) What is 7×90 ?

- A. 63 (forgot the zero) C. 79 (added the digits)
 B. 6300 (added two zeros) D. 630

2) A bread loaf is cut into 8 equal slices. What fraction is one slice?

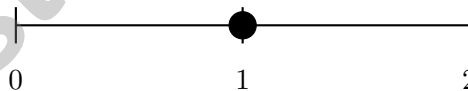
- A. $\frac{1}{8}$ C. $\frac{1}{4}$
 B. $\frac{1}{6}$ D. $\frac{1}{2}$

3) A unit square measures 1 foot by 1 foot. Which rectangle requires exactly 10 unit squares to cover it?



- A. 2 feet by 5 feet C. 2 feet by 4 feet
 B. 3 feet by 3 feet D. 3 feet by 2 feet

4) A number line shows 0 to 2 divided into 2 equal parts. What fraction is at the middle tick mark?



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



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5) Noah is looking at two number lines. He marks $\frac{1}{3}$ on one and $\frac{2}{6}$ on the other. Are these marks at the same location?

- A. They are not on the same line. C. No, $\frac{1}{3}$ is further right.
 B. No, $\frac{2}{6}$ is further right. D. Yes, at the same spot.

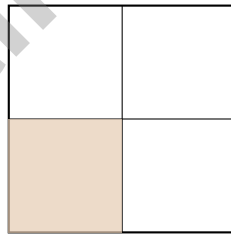
6) Jacob has 32 toy cars. He stores them in 4 boxes with the same number in each box. How many cars are in each box?

- A. 6 cars C. 9 cars
 B. 7 cars D. 8 cars

7) Ava has 40 strawberries. She puts 5 strawberries in each cup. How many cups does she fill?

- A. 8 C. 9
 B. 7 D. 35

8) A square chocolate bar is divided equally into 4 parts. Ben eats $\frac{1}{4}$ of the bar. How many parts does Ben eat?



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



- 9) A square piece of fabric has sides of 8 inches. What is its area?
- A. 16 square inches C. 56 square inches
 B. 32 square inches D. 64 square inches
- 10) Ben bought 3 packs of erasers. Each pack has 8 erasers. How many erasers did Ben buy?
- A. $8 \times 3 = 24$ C. $3 \times 3 = 9$
 B. $3 + 8 = 11$ D. $8 + 8 = 16$
- 11) Eli can group factors two ways. Which gives the same answer?
- A. $(3 \times 4) \times 2$ and $3 \times (4 \times 2)$ C. $(3 \times 4) \times 2$ and $(3 + 4) \times 2$
 B. $(3 \times 4) \times 2$ and $3 + (4 \times 2)$ D. $(3 \times 4) \times 2$ and $3 \times 4 - 2$



- 12) Find the area of the rectangle above.
- A. 22 sq ft C. 14 sq ft
 B. 32 sq ft D. 28 sq ft



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1)

Number	Round to 10	Round to 100
156	160	?

Fill in the blank: 156 rounded to the nearest 100 is _____.

- A. 150 C. 200
 B. 160 D. 156

2) What is 9×2 ?

- A. 11 C. 20
 B. 16 D. 18

3) Which two fractions both equal the whole number 2?

- A. $\frac{2}{1}$ and $\frac{4}{2}$ C. $\frac{4}{4}$ and $\frac{6}{3}$
 B. $\frac{2}{1}$ and $\frac{3}{3}$ D. $\frac{3}{1}$ and $\frac{6}{2}$

4) A classroom has a floor that is completely covered with square tiles. The floor is 8 tiles long and 5 tiles wide. Does the size of each tile affect how many tiles cover the floor?

- A. Yes, bigger tiles need fewer to cover the area C. Tiles don't affect area at all
 B. No, you always need $8 \times 5 = 40$ tiles no matter tile size D. Area depends only on the number of tiles

5) Two identical containers are filled. Container 1 is $\frac{3}{6}$ full. Container 2 is $\frac{1}{2}$ full. Which container has more water?

- A. The containers are different sizes. C. They have the same amount.
 B. Container 2 has more. D. Container 1 has more.

6) If a quadrilateral has 4 equal sides but the angles are not all right angles, what is it?

- A. Rectangle C. Trapezoid
 B. Square D. Rhombus

7) Look at this grid:



The area is:

- A. 9 sq units C. 16 sq units
 B. 14 sq units D. 18 sq units

8) Find $\frac{1}{3} + \frac{1}{3}$.

9) Eli drinks juice from a bottle. The bottle contained 1 liter. After he drinks some, 300 mL remains. How much juice did he drink?

- A. 300 mL C. 700 mL
 B. 500 mL D. 1000 mL

10) Ava is decorating her bedroom wall with a rectangular poster. The poster is 11 inches wide and 9 inches tall. What is the area of the poster?

- A. 99 sq in C. 20 sq in
 B. 40 sq in D. 110 sq in

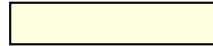


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- 1) Ben saves \$7 each week. After a certain number of weeks, he has saved \$63. How many weeks did he save?

$$\square \times 7 = 63$$

- A. 10 C. 7
 B. 8 D. 9
- 2) Two rectangles have the same PERIMETER (distance around). Does that mean they have the same AREA (space inside)?



Rectangle A
Perimeter 12



Rectangle B
Perimeter 12

- A. Yes, same perimeter means same area
 B. No, they can have different areas even with the same perimeter
 C. Only if they are both squares
 D. Area and perimeter are the same thing
- 3) Look at even numbers: 2, 4, 6, 8, 10, 12, 14.
What is the rule for this pattern?
- A. Add 1 each time C. Add 3 each time
 B. Skip count by 4 D. Add 2 each time



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4) A store arranges tennis balls into groups of 9. If there are 63 tennis balls, how many groups are there?

 A. 7 B. 8 C. 54 D. 72

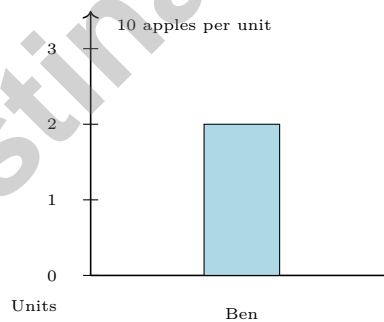
5) Which fraction is equivalent to $\frac{3}{4}$?

 A. $\frac{3}{8}$ B. $\frac{4}{8}$ C. $\frac{6}{8}$ D. $\frac{5}{8}$

6) Lily buys 3 packages of toy cars. Each package has 40 toy cars. How many toy cars does Lily buy?

 A. 34 B. 43 C. 120 D. 1200

7) Look at the bar graph. Each mark represents 10 apples. How many apples does Ben have?

 A. 20 B. 25 C. 30 D. 40

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 D is correct.** **(3.NBT.A.4)** Multiply $7 \times 9 = 63$, then multiply by 10 to get 630: $7 \times 90 = (7 \times 9) \times 10 = 63 \times 10 = 630$.
- Choice A is correct.** **(3.NF.A.1)** A loaf cut into 8 equal slices has each slice as $\frac{1}{8}$ (one-eighth).
- Choice A is correct.** **(3.GM.C.9)** $2 \times 5 = 10$ unit squares. Option B is $3 \times 3 = 9$. Option C is $2 \times 4 = 8$. Option D is $3 \times 2 = 6$.
- Choice B is correct.** **(3.NF.A.3)** On a number line from 0 to 2, the middle tick mark is at 1, which is halfway between 0 and 2.
- Choice D is correct.** **(3.NF.A.4)** $\frac{1}{3} = \frac{2}{6}$. They represent the same position on a number line.
- Choice D is correct.** **(3.RA.A.5)** $32 \div 4 = \square$ means $\square \times 4 = 32$. Since $8 \times 4 = 32$, each box has 8 cars.
- Choice A is correct.** **(3.RA.A.4)** Divide: $40 \div 5 = 8$ cups.
- Choice A is correct.** **(3.GM.A.3)** $\frac{1}{4}$ of a bar divided into 4 equal parts is 1 part.
- Choice D is correct.** **(3.GM.C.9)** For a square: $8 \times 8 = 64$ square inches.
- Choice A is correct.** **(3.RA.A.1)** Three packs with eight erasers each is 3 groups of 8, which equals $3 \times 8 = 24$ or $8 \times 3 = 24$. Option B is the addition misconception. Option C uses only one factor. Option D is incomplete (only two groups).
- Choice A is correct.** **(3.RA.B.6)** By the associative property, $(3 \times 4) \times 2 = 3 \times (4 \times 2) = 24$. Both ways of grouping give the same product.
- Choice D is correct.** **(3.GM.C.12)** Area = length \times width = $7 \times 4 = 28$ square feet.
- Choice D is correct.** **(3.NF.A.3)** $\frac{4}{8} = \frac{1}{2}$. On a 0-to-2 line, $\frac{1}{2}$ of the distance is at 1.
- Choices A and C are correct.** **(3.RA.C.7)** $4 \times 5 = 20$ is right. $6 \times 6 = 36$ not 35. $9 \times 7 = 63$ is right. $5 \times 7 = 35$ not 36. $3 \times 9 = 27$ not 28.
- The correct answer is 15 centimeters.** **(3.GM.C.12)** $44 = 2\ell + 2(7) = 2\ell + 14$, so $2\ell = 30$ and $\ell = 15$ cm.
- Choice C is correct.** **(3.DS.A.4)** The mode is the value with the most X's. At $16\frac{1}{2}$, there are 3 X's, which is more than any other value.
- The correct answer is 48 sq units.** **(3.GM.C.9)** Count rows: $8 + 8 + 8 + 8 + 8 + 8 = 48$ unit squares. Or count columns: $6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 = 48$ unit squares.
- Choice B is correct.** **(3.DS.A.2)** Read the height of each bar on the vertical axis by counting the grid lines.
- Choice D is correct.** **(3.NF.A.2)** $10 \div 5 = 2$. The picture shows 5 equal groups, each with 2 items.
- Choice A is correct.** **(3.NF.A.1)** One of eight equal sections is $\frac{1}{8}$.
- Choice A is correct.** **(3.NBT.A.3)** Ones: $8 + 5 = 13$ (write 3, carry 1). Tens: $0 + 7 + 1 = 8$. Hundreds: $3 + 1 = 4$. Answer: 483.
- Choice B is correct.** **(3.NF.A.4)** $\frac{2}{4}$ and $\frac{4}{8}$ both equal half of a whole and mark the same point.
- Choice C is correct.** **(3.GM.A.3)** Longer: $9 \times 4 = 36$ sq units. Shorter: $3 \times 2 = 6$ sq units. Total: $36 + 6 = 42$ sq units.
- Choice A is correct.** **(3.GM.C.11)** The distributive property multiplies 4 by each part separately, then adds: $4 \times (6 + 1) = (4 \times 6) + (4 \times 1)$.
- Choice C is correct.** **(3.GM.C.9)** 6 units wide by 3 units tall: $6 \times 3 = 18$ square units.
- Choice C is correct.** **(3.RA.C.7)** Area = $6 \times 3 = 18$ square units. The dots show that all squares are included.
- Choice B is correct.** **(3.GM.B.6)** From 8 : 30 AM to 3 : 30 PM is 7 hours. School ends 15 minutes earlier, so the day is 6 hours 45 minutes.
- Choice B is correct.** **(3.GM.C.11)** Wide rectangle: $6 \times 2 = 12$ square units.
- The correct answer is 1050 g.** **(3.GM.B.8)** Add: $300 + 400 + 350 = 1050$ g.
- Choice A is correct.** **(3.NBT.A.1)** First round 328 to nearest 10: ones digit is $8 \geq 5$, so 328 rounds to 330. Then round 330 to nearest 100: tens digit is $3 < 5$, so 330 rounds down to 300. This is a two-step rounding process (double rounding).



Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 10 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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

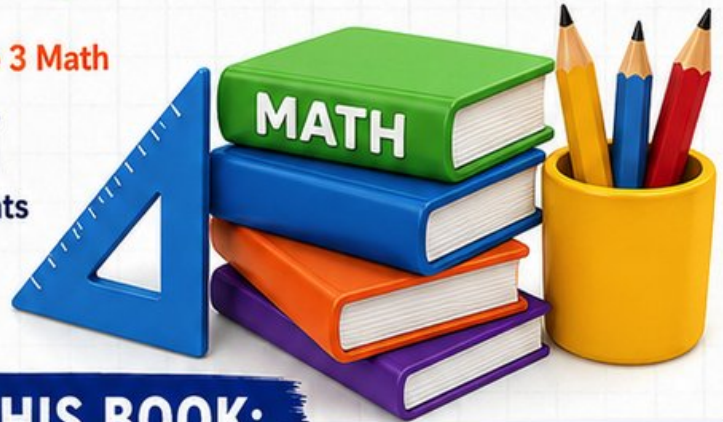
Jay Daie

Your Math Family

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