

3

Missouri

MAP

GRADE 3

MATH

PRACTICE TESTS

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Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



Build Confidence
with Targeted Practice



Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice

Be Ready.
Do Your Best!



3 Missouri MAP Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 review, Missouri MAP strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome to the Missouri Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



To the Grade 3 Trail Scout

This book is your practice trail for the Missouri MAP. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

Spot

Read carefully and find what the problem is really asking.

Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

Signal

Check that your answer makes sense before you wave the next question on.

Trail promise: I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the Missouri MAP asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

What strong MAP work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.



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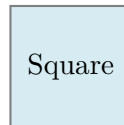
1) A number line from 0 to 1 has 6 tick marks total, including 0 and 1. How many equal parts are there?

A. 4

C. 6

B. 5

D. 7



2)

Which name could also describe this square?

A. Triangle

C. Rectangle

B. Pentagon

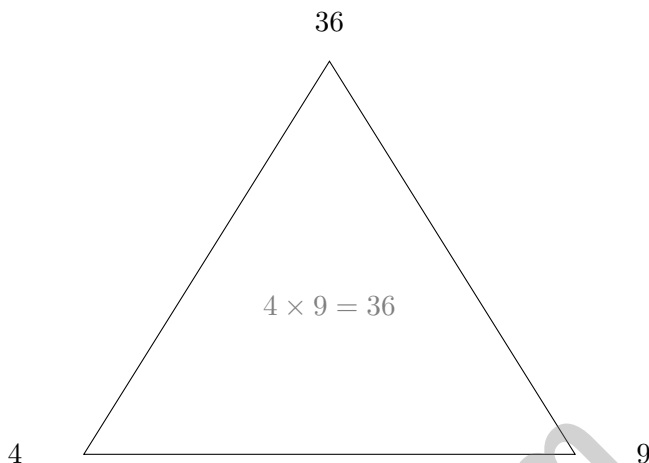
D. Trapezoid

3) A rectangle has 8 equal parts. How many parts make $\frac{1}{2}$?

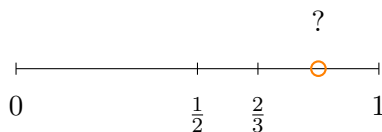
A simple black-outlined rectangle intended for the student to write their answer.

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4) Look at the fact-family triangle. Which two divisions can you write?



- | | |
|---|---|
| <p><input type="checkbox"/> A. $36 \div 4 = 9$ and $36 \div 9 = 4$</p> <p><input type="checkbox"/> B. $36 \div 9 = 36$ and $36 \div 4 = 36$</p> | <p><input type="checkbox"/> C. $4 + 9 = 13$ and $36 - 13 = 23$</p> <p><input type="checkbox"/> D. $9 \div 4 = 2$ and $36 \div 2 = 18$</p> |
|---|---|
- 5) A rectangular poster has dimensions of 11 inches by 8 inches. What is the area of the poster?
- | | |
|---|---|
| <p><input type="checkbox"/> A. 88 square inches</p> <p><input type="checkbox"/> B. 38 square inches</p> | <p><input type="checkbox"/> C. 19 square inches</p> <p><input type="checkbox"/> D. 99 square inches</p> |
|---|---|
- 6) A rope is divided into 8 equal sections. What unit fraction describes one section?
- | | |
|---|---|
| <p><input type="checkbox"/> A. $\frac{1}{8}$</p> <p><input type="checkbox"/> B. $\frac{8}{1}$</p> | <p><input type="checkbox"/> C. $\frac{2}{8}$</p> <p><input type="checkbox"/> D. $\frac{1}{9}$</p> |
|---|---|



- 7) The orange dot is between $\frac{2}{3}$ and 1. Which comparison is true?
- | | |
|---|--|
| <p><input type="checkbox"/> A. The dot $< \frac{2}{3}$</p> <p><input type="checkbox"/> B. $\frac{2}{3} < \text{the dot} < 1$</p> | <p><input type="checkbox"/> C. The dot $= \frac{2}{3}$</p> <p><input type="checkbox"/> D. The dot > 1</p> |
|---|--|

8) Eli knows that $72 \div 8 = 9$. Which multiplication fact helps him check this division?

A. $8 \times 9 = 72$

C. $9 \times 9 = 81$

B. $7 \times 9 = 63$

D. $8 \times 8 = 64$

9) A bottle holds 2000 milliliters of juice. A glass holds about 250 milliliters. Which is the BEST estimate of how many glasses can be filled from the bottle?

A. 2

C. 8

B. 4

D. 12

10) A store has boxes of toy cars. Each box holds 9 cars. How many cars are in 6 boxes?

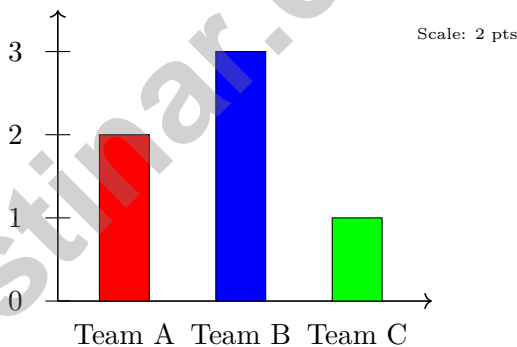
A. 48 cars

C. 56 cars

B. 60 cars

D. 54 cars

11) A bar graph shows points scored. Scale is 2 points per unit. Read the three bars.



A. Total points: 16

C. Total points: 12

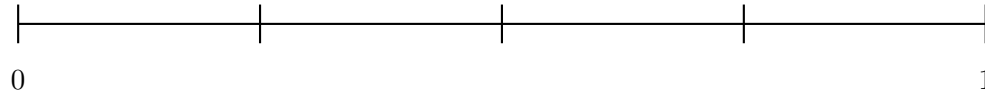
B. Total points: 14

D. Total points: 18

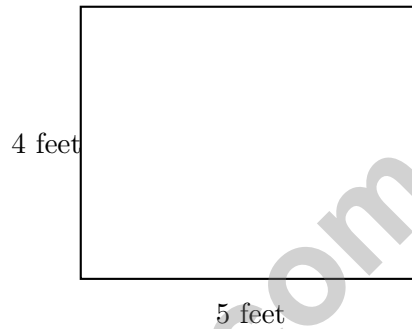


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1) A number line from 0 to 1 is split into 4 equal parts. Where would you mark $\frac{3}{4}$?



- A. At 0
- B. At the first tick
- C. At the third tick
- D. At the fourth tick



2) A rectangular carpet measures 5 feet by 4 feet. What is the area?

- A. 9 sq ft
- B. 18 sq ft
- C. 20 sq ft
- D. 40 sq ft

3) What number makes the equation true?

$$\square \div 5 = 8$$

- A. 50
- B. 35
- C. 45
- D. 40

4) A line plot shows book weights in ounces: 8, $8\frac{1}{2}$, $9, 9\frac{1}{2}$, 10. Count from the plot shows 1 X at 8 oz, 2 at $8\frac{1}{2}$ oz, 3 at 9 oz, 2 at $9\frac{1}{2}$ oz, and 2 at 10 oz. What is the range?

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



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- 5) A teacher has 96 stickers and divides them equally among 8 groups. Then each group uses 2 stickers. How many stickers does one group have left?

- 6) What is the missing number? $\square \times 8 = 48$

- A. 5 C. 7
 B. 8 D. 6

- 7) Which fraction equals 1 whole?

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

- 8) Write a fraction equivalent to $\frac{1}{2}$ with a denominator of 4 using multiplication.

- 9) Two fraction bars are shown. Bar 1 shows $\frac{2}{3}$ shaded. Bar 2 shows $\frac{4}{6}$ shaded. The shaded regions are the same size. Which statement is true?

- A. $\frac{2}{3} < \frac{4}{6}$ C. $\frac{2}{3} = \frac{4}{6}$
 B. $\frac{2}{3} > \frac{4}{6}$ D. Cannot be compared



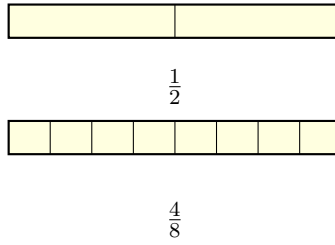
- 1) Look at the fraction bars. Are $\frac{3}{6}$ and $\frac{1}{2}$ equivalent?



- A. Yes, both show half
 B. No, $\frac{3}{6}$ is larger
 C. No, $\frac{1}{2}$ is larger
 D. Cannot tell from the bars
- 2) Which shows why 4×20 equals 80?
- A. $(4 + 2) \times 10 = 60$
 B. $4 + 2 + 10 = 16$
 C. $4 \times (2 + 10) = 48$
 D. $(4 \times 2) \times 10 = 8 \times 10 = 80$
- 3) A pet store has 9 cages. Each cage has 5 rabbits. Which equation can be used to find the total number of rabbits?
- A. $9 + 5 = 14$
 B. $9 \times 5 = 45$
 C. $5 + 5 = 10$
 D. $9 - 5 = 4$
- 4) A rectangular painting is 12 inches wide and 6 inches tall. What is the area of the painting?
- A. 36 sq in
 B. 72 sq in
 C. 18 sq in
 D. 66 sq in
- 5) Ava ate $\frac{10}{2}$ of a pizza. How many whole pizzas did she eat?
- A. 2
 B. 10
 C. 5
 D. 1
- 6) A line plot shows eraser weights in grams: 10, $10\frac{1}{2}$, 11, $11\frac{1}{2}$. At 10 grams there are 2 X's. At $10\frac{1}{2}$ there are 4 X's. At 11 there are 2 X's. How many erasers total?
- A. 6
 B. 8
 C. 10
 D. 12



7) Which fraction is equivalent to $\frac{4}{8}$?



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

- C. $\frac{3}{8}$
- D. $\frac{3}{4}$

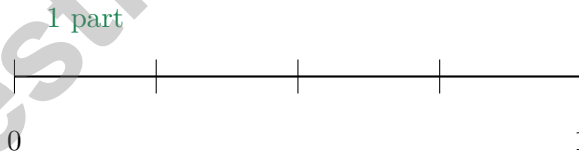
8) This number line shows 0 to 1 split into 2 equal parts. What is the fraction at the right end?



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

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

9) Count the equal parts on this number line. What unit fraction does it show?



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

- C. $\frac{1}{5}$
- D. $\frac{1}{6}$



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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 builds stronger math habits.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(3.NF.A.1)** Six tick marks create five equal segments. The unit fraction is $\frac{1}{5}$.
- 2) **Choice C is correct.** **(3.GM.A.1)** A square is a special type of rectangle. Since a square has 4 right angles, it meets the definition of a rectangle.
- 3) **The correct answer is 4 parts.** **(3.GM.A.3)** Half of 8 is 4.
- 4) **Choice A is correct.** **(3.RA.A.5)** From the fact-family triangle with factors 4 and 9 and product 36, we write two divisions: $36 \div 4 = 9$ and $36 \div 9 = 4$. The factors become quotients.
- 5) **Choice A is correct.** **(3.GM.C.9)** Multiply length by width: $11 \times 8 = 88$ square inches.
- 6) **Choice A is correct.** **(3.NF.A.1)** When a whole is divided into 8 equal parts, one part is the unit fraction $\frac{1}{8}$ (one-eighth).
- 7) **Choice B is correct.** **(3.NF.A.7)** The orange dot is positioned between the $\frac{2}{3}$ mark and 1 on the number line, so it represents a fraction between $\frac{2}{3}$ and 1. This fraction is $\frac{5}{6}$.
- 8) **Choice A is correct.** **(3.RA.A.5)** If $72 \div 8 = 9$, then 8×9 must equal 72.
- 9) **Choice C is correct.** **(3.GM.B.8)** Divide: $2000 \div 250 = 8$ glasses.
- 10) **Choice D is correct.** **(3.RA.C.7)** 6 boxes with 9 cars each: $6 \times 9 = 54$.
- 11) **Choice C is correct.** **(3.DS.A.2)** Team A: $2 \times 2 = 4$. Team B: $3 \times 2 = 6$. Team C: $1 \times 2 = 2$. Total: $4 + 6 + 2 = 12$.
- 12) **Choice C is correct.** **(3.GM.C.11)** Square tiling: $5 \times 5 = 25$ square units.
- 13) **Choice A is correct.** **(3.RA.D.10)** Step 1: Find total: $5 \times 6 = 30$ items. Step 2: Subtract sold: $30 - 12 = 18$ items left. (Choice C is step 1 only.)
- 14) **Choice B is correct.** **(3.GM.C.9)** $5 \times 6 = 30$ unit square pavers.
- 15) **Choices A and C are correct.** **(3.NBT.A.3)** Check each: A is $600 - 300 = 300$, B is $450 - 140 = 310$, C is $725 - 425 = 300$, D is $512 - 211 = 301$, and E is $800 - 450 = 350$. The two differences that equal 300 are A and C.
- 16) **Choice D is correct.** **(3.NF.A.2)** Measurement division: $36 \div 6 = 6$. There are 6 groups of 6 stickers.
- 17) **Choice C is correct.** **(3.GM.C.12)** Area = length \times width = $7 \times 4 = 28$ square inches.
- 18) **Choice B is correct.** **(3.NF.A.3)** $\frac{5}{6}$ means $5 \times \frac{1}{6}$, so there are 5 equal steps from 0. Distractor A: distance to 1 is $\frac{1}{6}$, which is 1 part, not 1 tick per se (ambiguous). Distractor C: false; $\frac{5}{6}$ is much closer to 1. Distractor D: false; it is at the 5th tick.
- 19) **The correct answer is 3.** **(3.NF.A.5)** $\frac{9}{3} = 3$.
- 20) **Choice A is correct.** **(3.RA.B.6)** The distributive property breaks apart the sum and multiplies each addend by 4: $(2 + 3) \times 4 = 2 \times 4 + 3 \times 4$.
- 21) **Choice A is correct.** **(3.GM.C.9)** A unit square has side length 1 unit. If measured in inches, that is $1 \text{ in} \times 1 \text{ in} = 1$ square inch.
- 22) **Choice C is correct.** **(3.GM.A.3)** One part: $10 \times 2 = 20$ sq units. Other part: $4 \times 3 = 12$ sq units. Total: $20 + 12 = 32$ sq units.
- 23) **Choice B is correct.** **(3.RA.C.7)** Area = $7 \times 2 = 14$ square inches.
- 24) **Choice C is correct.** **(3.GM.C.9)** $7 \times 6 = 42$ unit squares.
- 25) **Choice C is correct.** **(3.NBT.A.1)** The ones digit is 5. Since $5 \geq 5$, round up: 95 rounds to 100 (rollover case).
- 26) **Choice A is correct.** **(3.GM.B.6)** From 6 : 15 PM to 8 : 15 PM is 2 hours. From 8 : 15 PM to 8 : 30 PM is 15 more minutes. Total: 2 hours 15 minutes. Distractor C adds incorrectly; B over-counts hours.
- 27) **Choice C is correct.** **(3.RA.E.11)** From 7 to 14 is +7; from 14 to 21 is +7; from 21 to 28 is +7.
- 28) **The correct answer is 24.** **(3.RA.A.4)** $6 \times 4 = 24$.
- 29) **Choice C is correct.** **(3.NBT.A.4)** $8 \times 20 = 8 \times (2 \times 10) = (8 \times 2) \times 10 = 16 \times 10 = 160$. Multiply the single-digit factors first, then multiply by 10.
- 30) **Choice D is correct.** **(3.RA.A.1)** 4 packs with 7 sheets each means 4 groups of 7. So $4 \times 7 = 28$ sheets.



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Hi, Math Pilot!

◇ 3 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. *Succeed* Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

What's Inside?



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Questions designed to cover essential Grade 3 math standards.



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Engaging problems that connect math to everyday life.



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Track improvement and build confidence with every test.



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Strengthen understanding and feel prepared for test day.

COVERS ALL ESSENTIAL TOPICS

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
- ✓ And More!



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