

3

Michigan

M STEP

GRADE 3

MATH PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



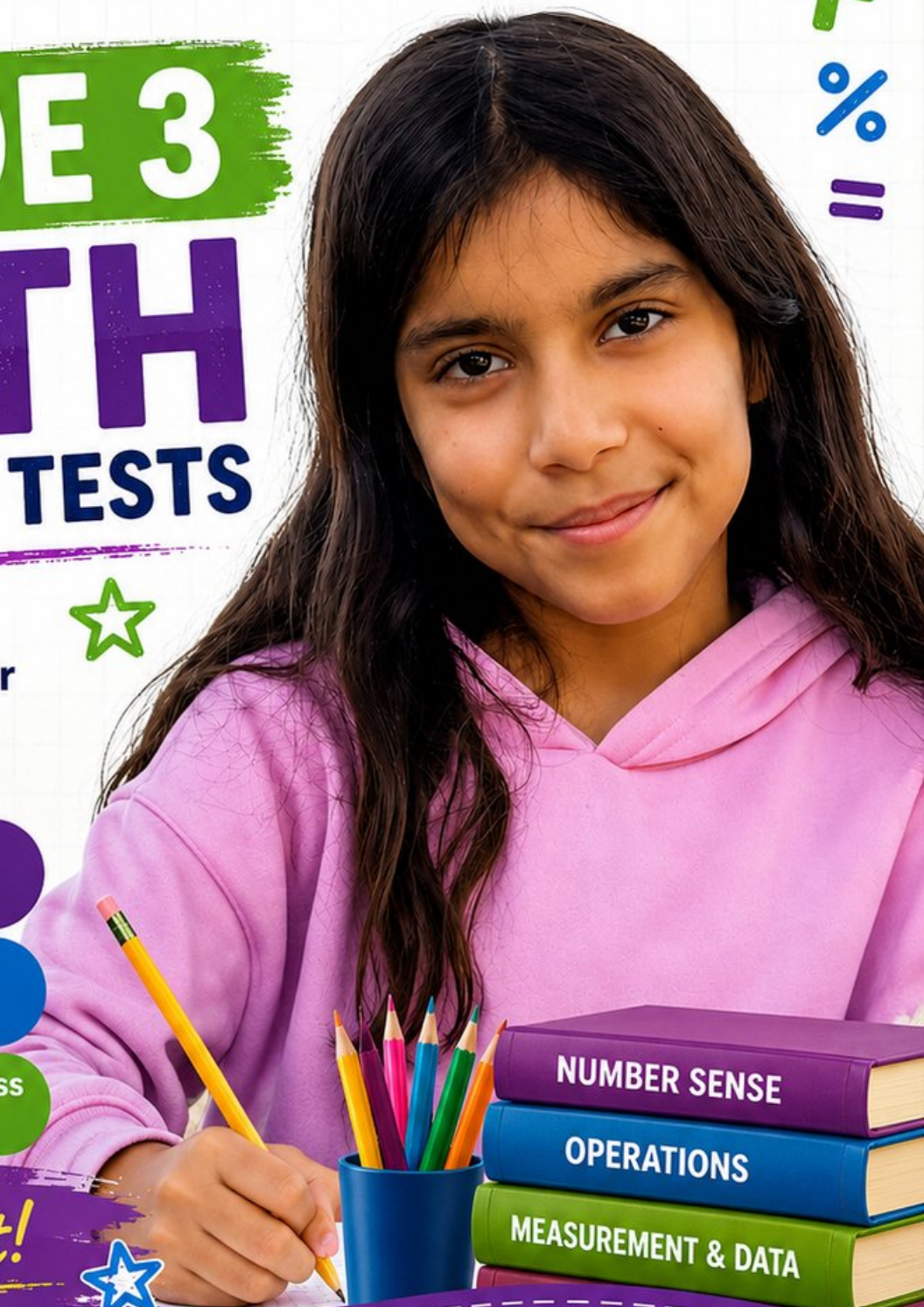
Build Confidence
with Targeted Practice



Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice

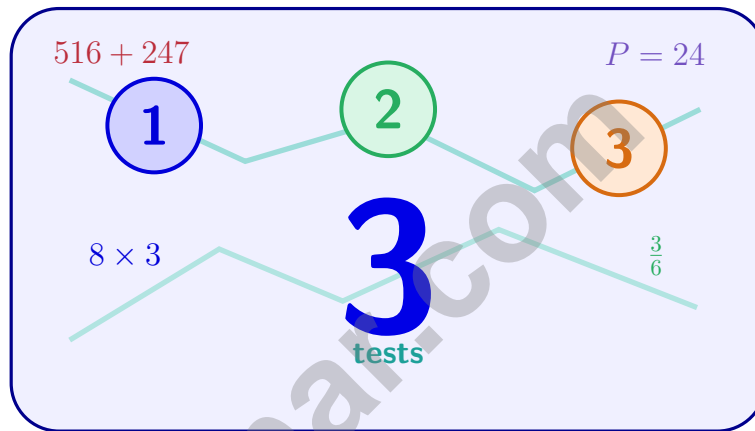


Be Ready.
Do Your Best!



3 Michigan M-STEP 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, Michigan M-STEP 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 Michigan 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 Michigan M-STEP. 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 Michigan M-STEP 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 M-STEP 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) Sam solved this problem: $\square \times 8 = 56$. He wrote the answer $\square = 7$. Is his answer correct?

- A. Yes, because $7 \times 8 = 56$. C. No, the correct answer is 8.
 B. No, the correct answer is 6. D. No, the correct answer is 9.

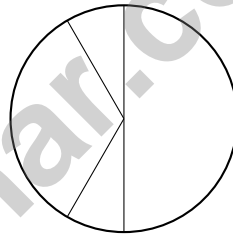
2) A picture graph shows stickers in an envelope. Each square represents 2 stickers. Count the symbols shown in the picture graph.

Envelope: $\square \square \square \square \square$

$\square = 2$ stickers

- A. 4 stickers C. 10 stickers
 B. 8 stickers D. 12 stickers

3) Is this circle divided into equal parts correctly?



- A. Yes, it is divided into 4 equal parts C. No, the parts are not equal
 B. Yes, it is divided into 5 equal parts D. No, it is not divided at all

4) A rectangle is 9 unit squares long and 2 unit squares wide. How many unit squares cover it?

- A. 9 unit squares C. 6 units
 B. 18 unit squares D. 16 units



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9) A rectangle is divided into 2 equal parts. One part is shaded.



What unit fraction is shaded?

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

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

10) Eli ate $\frac{1}{3}$ of a pizza. Write an equivalent fraction that has 6 as the denominator.

11) A composite shape breaks into three rectangles: one 5 units by 3 units, and two 2 units by 3 units each. What is the total area?

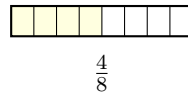
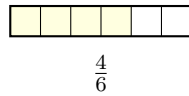
- A. 15 sq units
- B. 6 sq units

- C. 27 sq units
- D. 90 sq units

12)

Compare $\frac{4}{6}$ and $\frac{4}{8}$. Which is true?

- A. $\frac{4}{6} > \frac{4}{8}$ (same numerator, $6 > 8$)
- B. $\frac{4}{6} < \frac{4}{8}$ ($8 > 6$)
- C. $\frac{4}{6} = \frac{4}{8}$



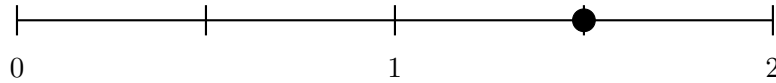
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- 5) A floor tile is 1 inch by 1 inch. A floor has 8 rows and 6 tiles in each row. What is the area?
- A. 14 sq in C. 28 sq in
 B. 48 sq in D. 64 sq in
- 6) Noah has 28 flowers. He puts them equally into 4 vases. How many flowers are in each vase?
- A. 6 C. 24
 B. 32 D. 7
- 7) Maya has 100 beads. She uses 25 beads to make a necklace. She divides the rest equally into 5 bracelets. How many beads are in each bracelet?
- A. 15 C. 25
 B. 20 D. 75
- 8) Eli shares 24 pencils equally among 3 friends. How many pencils does each friend get?
- A. 8 C. 6
 B. 7 D. 4
- 9) Which expression shows the same product as 2×9 ?
- A. 11 objects in a row C. 9×9
 B. $2 + 9$ D. 9×2
- 10) A circle is divided into 6 equal parts. Write the fraction that represents one part of the circle.

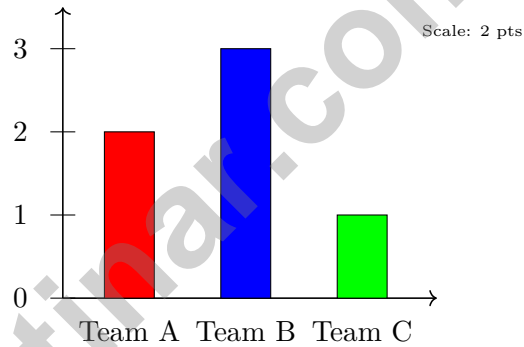


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- 1) A number line goes from 0 to 2 with 4 equal parts. What number is marked by the dot?



- A. $\frac{1}{2}$
 C. $\frac{3}{2}$
 B. 1
 D. $1\frac{1}{2}$
- 2) Which multiplication fact is true?
- A. $7 \times 6 = 48$
 C. $9 \times 4 = 36$
 B. $8 \times 6 = 42$
 D. $5 \times 9 = 50$
- 3) A bar graph shows points scored. Scale is 2 points per unit. Read the three bars.

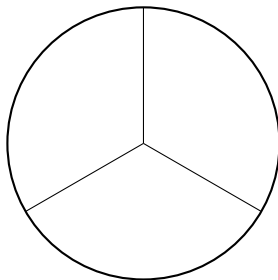


- A. Total points: 16
 C. Total points: 12
 B. Total points: 14
 D. Total points: 18



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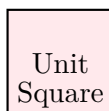
- 4) A circle is divided into equal parts. Each part is $\frac{1}{3}$ of the circle. How many equal parts is the circle divided into?



- A. 2 parts C. 4 parts
 B. 3 parts D. 6 parts
- 5) Noah is designing a playground. He wants to cover a rectangular area using square meter mats. The playground is 10 meters by 7 meters. How many square meter mats will Noah need to cover the entire playground? Show your counting.



- 6) Which is true about a unit square?



- A. All sides are different lengths C. It has area equal to its perimeter
 B. All sides are 1 unit long and all angles are right angles D. It can be any shape as long as area is 1



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 A is correct.** **(3.OA.A.4)** We can check: $7 \times 8 = 56$. Sam is correct.
- 2) **Choice C is correct.** **(3.MD.B.3)** Count: 5 squares in the picture graph. Multiply by scale: $5 \times 2 = 10$ stickers.
- 3) **Choice C is correct.** **(3.G.A.2)** The lines do not create equal parts. Lines from the center must divide a circle into equal angles to make equal parts.
- 4) **Choice B is correct.** **(3.MD.C.5b)** There are 2 rows with 9 unit squares in each row: $9 \times 2 = 18$ unit squares.
- 5) **The correct answer is 450 mL.** **(3.MD.A.2)** Subtract total poured out: $200 + 150 = 350$ mL. Remaining: $800 - 350 = 450$ mL.
- 6) **Choice A is correct.** **(3.NBT.A.2)** Subtract to find the missing addend: $650 - 367 = 283$. Check: $367 + 283 = 650$.
- 7) **Choice B is correct.** **(3.NBT.A.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.
- 8) **Choice C is correct.** **(3.NF.A.3)** $\frac{1}{2}$ and $\frac{3}{6}$ are equivalent, but $\frac{2}{3}$ is larger and does not match.
- 9) **Choice B is correct.** **(3.NF.A.1)** The rectangle is divided into 2 equal parts with 1 shaded, so the fraction is $\frac{1}{2}$ (one-half).
- 10) **The correct answer is $\frac{2}{6}$.** **(3.NF.A.3b)** Multiply the numerator and denominator by 2: $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$.
- 11) **Choice C is correct.** **(3.MD.C.7d)** First: $5 \times 3 = 15$ sq units. Two others: $2 \times 3 = 6$ each. Total: $15 + 6 + 6 = 27$ sq units.
- 12) **Choice A is correct.** **(3.NF.A.3d)** Same numerator (4): sixths are bigger pieces than eighths. Comparing the shaded areas: 4 sixths covers more than 4 eighths. The fewer pieces the denominator divides into, the bigger each piece.
- 13) **Choice D is correct.** **(3.OA.A.2)** The number line shows jumps of 2 from 0 to 10. There are 5 jumps, so it represents $10 \div 2 = 5$.
- 14) **Choices C and D are correct.** **(3.G.A.1)** Rhombuses and squares both have all 4 sides equal in length. A square is a special rhombus with right angles. Rectangles can have unequal sides (length and width). Trapezoids and general parallelograms do not require equal sides.
- 15) **Choice B is correct.** **(3.MD.C.5)** Multiply length by width: $9 \times 2 = 18$ square feet.
- 16) **Choice D is correct.** **(3.MD.C.7b)** Area = length \times width = $6 \times 3 = 18$ square meters.
- 17) **Choice A is correct.** **(3.NF.A.3a)** Both bars show the same shaded region (one-half of each bar). They are equivalent fractions.
- 18) **Choice B is correct.** **(3.MD.C.7)** Area = $3 \times 5 = 15$ square feet.
- 19) **Choice A is correct.** **(3.MD.B.4)** The most common diameter is 2 inches because it has 3 X's, which is more than any other value.
- 20) **Choice B is correct.** **(3.MD.C.7a)** $5 \times 3 = 15$ square units.
- 21) **Choice B is correct.** **(3.OA.D.8)** Step 1: Find total bottles: $6 \times 9 = 54$ bottles. Step 2: Subtract: $54 - 15 = 39$ bottles left. (Choice D is step 1 only; choice C is incorrect.)
- 22) **Choice A is correct.** **(3.MD.C.7c)** Width is 4. Heights are 4 and 3, totaling 7. Distributive: $4 \times (4 + 3) = 28$.
- 23) **Choice A is correct.** **(3.OA.D.9)** The products 2, 4, 6 each increase by 2 because we multiply 2 by 1, then 2, then 3.
- 24) **Choice B is correct.** **(3.NF.A.3c)** When numerator = denominator, the fraction equals 1 whole. $\frac{3}{3} = 1$.
- 25) **The correct answer is 20 unit squares.** **(3.MD.C.5a)** Multiply length by width: $5 \text{ ft} \times 4 \text{ ft} = 20$ square feet, which equals 20 unit squares of 1 ft each.
- 26) **Choice D is correct.** **(3.OA.A.1)** The rectangle has 3 columns and 2 rows of equal parts. So $3 \times 2 = 6$ parts in total.
- 27) **Choice B is correct.** **(3.NF.A.2a)** Three equal parts of size $\frac{1}{6}$ each is $\frac{3}{6}$ from zero.
- 28) **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.
- 29) **Choice C is correct.** **(3.OA.C.7)** There are 5 rows with 6 objects in each row. $5 \times 6 = 30$ objects in total.
- 30) **Choice D is correct.** **(3.OA.A.3)** Multiply: 3 columns \times 4 rows = 12 dots.



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Notes From Your Math Builder

Hi, Math Builder!

◇ Through 3 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

★ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ★

Builder's Tools

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

Builder tip: on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

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

Jay Daie

Your Math Builder

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?



Standards-Aligned Practice

Questions designed to cover essential Grade 3 math standards.



Variety of Question Types

Multiple-choice, short answer, and more to build well-rounded skills.



Real-World Applications

Engaging problems that connect math to everyday life.



Step-by-Step Progress

Track improvement and build confidence with every test.



Build Skills & Boost Confidence

Strengthen understanding and feel prepared for test day.

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
- ✓ And More!



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PRACTICE. PREPARE. SUCCEED.