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10 Michigan M-STEP



GRADE 3

MATH

PRACTICE TESTS

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

$2 \times 7 + 4$



★ ★ ★
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 Michigan M-STEP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 practice rounds for M-STEP, built around Great Lakes shorelines, forest roads, and reliable checking, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Michigan Math Explorer!

Ten steady rounds on the Great Lakes math route

This book gives you ten full Grade 3 practice tests for M-STEP. Each round uses Great Lakes shorelines, forest roads, and reliable checking to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Michigan 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 Michigan M-STEP 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 Great Lakes 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 M-STEP 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 Michigan 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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1) Which product is the greatest?

A. $7 \times 40 = 280$

C. $6 \times 50 = 300$

B. $8 \times 30 = 240$

D. $9 \times 20 = 180$

2) There are 5 tables in the cafeteria. Each table has 6 chairs. How many chairs are there altogether?

A. 11

C. 24

B. 36

D. 30

3) Noah has 56 baseball cards. He puts them into 7 equal piles. How many cards are in each pile?

$$56 \div 7 = \square$$

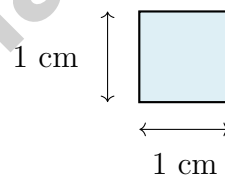
A. 10

C. 7

B. 9

D. 8

4) A unit square has side length 1 cm. What is the area of this unit square?



A. 1 centimeter

C. 1 square centimeter

B. 2 square centimeters

D. 4 square centimeters

5) Ben tiles a square using unit squares. He puts 5 tiles in each row and 5 tiles in each column. How many tiles does he use?

A. 10

C. 15

B. 25

D. 50



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6) What is 429 rounded to the nearest 10?

A. 420

C. 430

B. 429

D. 500

7) Which rectangle has an area of 12 square units?

A. length 2, width 6

C. length 4, width 4

B. length 3, width 5

D. length 2, width 5

8) A classroom floor is 5 feet wide and 8 feet long. If the teacher covers it with square foot tiles, how many tiles are needed? Show your thinking by drawing or writing.



9) Ava's book cover is shaped like a square with sides of 9 inches. What is the area?

A. 18 sq in

C. 72 sq in

B. 36 sq in

D. 81 sq in



10)

5 cm

What is the area of the rectangle shown?

A. 7 sq cm

C. 12 sq cm

B. 14 sq cm

D. 10 sq cm



1) There are 5 rows of chairs and 6 chairs in each row. How many chairs are there in total?

A. 25 chairs

C. 35 chairs

B. 40 chairs

D. 30 chairs

2) A number line shows 0 to 1 split into 3 equal parts. How many equal parts are between 0 and $\frac{2}{3}$?



3) A rectangular tile is 9 unit squares long and 7 unit squares wide. How many unit squares cover it?

A. 54 unit squares

C. 72 unit squares

B. 63 unit squares

D. 90 unit squares

4) Noah had 300 cookies. He gave away 145 cookies to his friends. How many cookies does Noah have left?

A. 155

C. 445

B. 165

D. 245

5) Which equation matches the tiling shown by a rectangle with one line cutting it vertically into two parts?

A. $7 \times (3 + 2) = (7 \times 3) + (7 \times 2)$

C. $7 + 3 + 2 = 12$

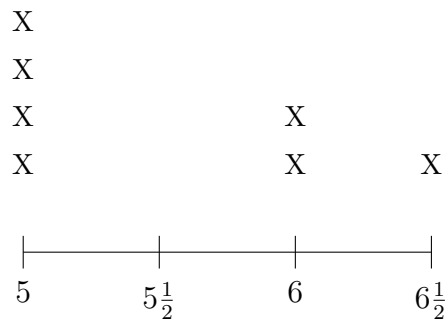
B. $3 \times 2 = 6$

D. $(3 \times 7) + (2 \times 7) = 35 + 14$



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6) A line plot shows craft supply quantities: $5, 5\frac{1}{2}, 6, 6\frac{1}{2}$.



What is the total number of items measured?

- A. 5
 - B. 6
 - C. 7
 - D. 8
- 7) A bar graph shows minutes played at recess. Each unit is 2 minutes. Sofia's bar is 5 units. How many minutes did Sofia play?

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



Diagonal of a square

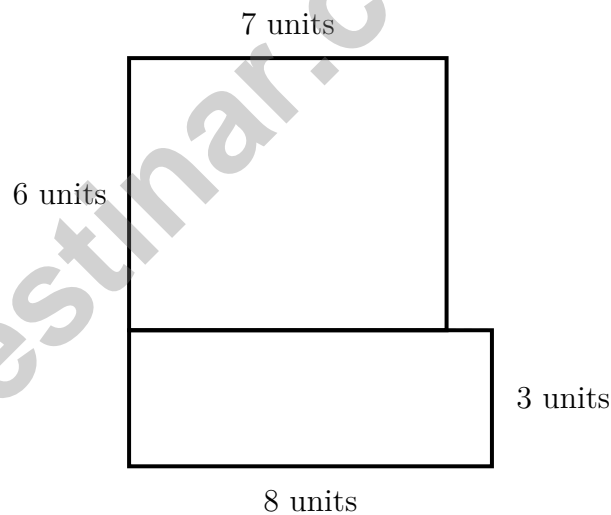
8)

The diagonal of a square is drawn. What shape is created on each side of the diagonal?

- A. Rectangle
- B. Square
- C. Triangle
- D. Pentagon



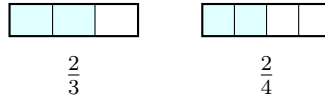
- 1) A classroom has 5 shelves of puzzle boxes. Each shelf has 8 boxes. How many puzzle boxes are there?
- A. 13 boxes (adds $5 + 8$) C. 35 boxes (confuses: 5×7 instead)
- B. 45 boxes (adds $5 + 8 + 32$) D. 40 boxes
- 2) Maria has 328 marbles. She rounds to the nearest 10 to estimate. Then she rounds that answer to the nearest 100. What is the final answer? (This is called double rounding.)
- A. 300 C. 330
- B. 320 D. 400
- 3) An L-shaped wall is divided by dashed lines. The vertical section is 7 units by 6 units. The horizontal section is 8 units by 3 units. What is the total area?



- A. 42 sq units C. 66 sq units
- B. 24 sq units D. 1008 sq units



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4)

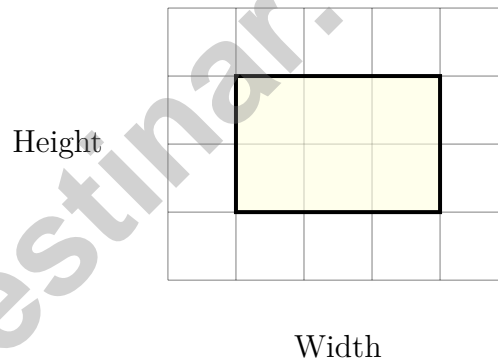
Compare $\frac{2}{3}$ and $\frac{2}{4}$. Which is true?

- A. $\frac{2}{3} < \frac{2}{4}$ (bigger denominator = bigger fraction)
- B. $\frac{2}{3} = \frac{2}{4}$ (both have numerator 2)
- C. $\frac{2}{3} > \frac{2}{4}$
- D. $\frac{2}{4} > \frac{2}{3}$ ($4 > 3$, so $\frac{2}{4}$ is larger)

5) Which is NOT equal to a whole number?

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

6) Look at this shape made of square units on a grid. Count the squares to find the area without multiplying.



Which square unit measurement is correct?

- A. 6 square units
- B. 7 square units
- C. 8 square units
- D. 9 square units

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

- 1) **Choice C is correct.** **(3.NBT.A.3)** $6 \times 50 = 300$ is the greatest because $300 > 280$, $300 > 240$, and $300 > 180$.
- 2) **Choice D is correct.** **(3.OA.A.3)** Multiply: $5 \text{ tables} \times 6 \text{ chairs per table} = 30 \text{ chairs}$.
- 3) **Choice D is correct.** **(3.OA.A.4)** Divide: $56 \div 7 = 8 \text{ cards per pile}$.
- 4) **Choice C is correct.** **(3.MD.C.5a)** A unit square with side length 1 cm has area $1 \text{ cm} \times 1 \text{ cm} = 1 \text{ cm}^2$.
- 5) **Choice B is correct.** **(3.MD.C.7a)** Square: $5 \times 5 = 25 \text{ tiles}$. Equal row and column count.
- 6) **Choice A is correct.** **(3.NBT.A.1)** The ones digit is 9. Since $9 \geq 5$, round up: 429 rounds to 430.
- 7) **Choice A is correct.** **(3.MD.C.7)** Choice A: $2 \times 6 = 12 \checkmark$. Choice B: $3 \times 5 = 15$. Choice C: $4 \times 4 = 16$. Choice D: $2 \times 5 = 10$.
- 8) **The correct answer is 40 tiles.** **(3.MD.C.5b)** Count the rows: 5 rows of tiles. Count across: 8 tiles per row. Total: $8 + 8 + 8 + 8 + 8 = 40 \text{ square foot tiles cover the floor}$.
- 9) **Choice D is correct.** **(3.MD.C.6)** Area of a square = $9 \times 9 = 81 \text{ square inches}$.
- 10) **Choice D is correct.** **(3.MD.C.7b)** Area = length \times width = $5 \times 2 = 10 \text{ square centimeters}$.
- 11) **The correct answer is $\frac{4}{6}$.** **(3.NF.A.3b)** Multiply the numerator and denominator by 2: $\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$.
- 12) **Choice D is correct.** **(3.OA.D.9)** 42 ends in 2, not 0 or 5, so it is not a multiple of 5. All others end in 0 or 5.
- 13) **Choices A and D are correct.** **(3.OA.A.1)** 5×3 means "five groups of three," giving $3 + 3 + 3 + 3 + 3 = 15$ (choice A and D are both correct). Choice C is the reverse order (commutative, also equals 15). Choice B is addition. Choice E is incorrect. Technically A, C, and D are all mathematically valid for 5×3 , but the most direct answers matching the notation are A (five groups of three) and D (the repeated addition form of five threes).
- 14) **Choice D is correct.** **(3.OA.B.5)** The associative property changes the grouping of the factors without changing their order. So $(3 \times 4) \times 2 = 3 \times (4 \times 2) = 24$.
- 15) **Choice D is correct.** **(3.NF.A.3a)** $\frac{1}{4} = \frac{2}{8}$. Both sections cover one-quarter of their gardens.
- 16) **Choice A is correct.** **(3.OA.D.8)** First add: $15 + 9 = 24 \text{ cars}$. Then divide by 3 children: $24 \div 3 = 8 \text{ cars per child}$. Choice A correctly shows both steps with parentheses.
- 17) **Choice C is correct.** **(3.MD.B.4)** 56 inches or taller includes 56 and $56\frac{1}{2}$: that is $3 + 2 = 5 \text{ students}$.
- 18) **Choice C is correct.** **(3.MD.C.7c)** Two equal rectangles each have area 14. Add the two parts: $14 + 14 = 28 \text{ square units}$.
- 19) **Choice C is correct.** **(3.NF.A.3)** $\frac{1}{2}$ and $\frac{3}{6}$ both equal half of a whole.
- 20) **Choice D is correct.** **(3.OA.C.7)** $56 \div 7 = 8$ because $8 \times 7 = 56$. Seven groups of 8 equals 56.
- 21) **Choice A is correct.** **(3.G.A.1)** A square is a special kind of rectangle that also has all sides equal. Every square has the properties of a rectangle (4 sides, 4 right angles), so every square is a rectangle.
- 22) **Choice B is correct.** **(3.MD.C.5)** The shaded rectangle is 4 units wide and 3 units tall. $4 \times 3 = 12 \text{ square units}$.
- 23) **Choice A is correct.** **(3.NF.A.3d)** Same numerator: eighths are smaller pieces than sixths. Two eighths is less than two sixths.
- 24) **Choice A is correct.** **(3.MD.C.7d)** Add the areas: $18 + 11 = 29 \text{ square units}$. Choice B (only one part) and C (subtraction) are common errors.
- 25) **Choice C is correct.** **(3.MD.B.3)** Divide the total by the scale: $12 \div 2 = 6 \text{ units tall}$.
- 26) **Choice A is correct.** **(3.NBT.A.2)** Add: $187 + 246 = 433$. Ones: $7 + 6 = 13$ (write 3, carry 1). Tens: $8 + 4 + 1 = 13$ (write 3, carry 1). Hundreds: $1 + 2 + 1 = 4$.
- 27) **The correct answer is $\frac{1}{3}$.** **(3.G.A.2)** If 2 out of 3 parts are shaded, then 1 part is not shaded, which is $\frac{1}{3}$.
- 28) **Choice B is correct.** **(3.NF.A.2a)** If each part is $\frac{1}{5}$, then there are 5 equal parts total.
- 29) **Choice A is correct.** **(3.OA.A.2)** $8 \div 2 = 4$. The picture shows 8 items split into 2 equal groups of 4 each.
- 30) **Choice B is correct.** **(3.NF.A.1)** The rectangle is divided into 6 equal parts. One part is shaded, so the shaded fraction is $\frac{1}{6}$ (one-sixth).



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From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 10 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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

Jay Daie

Your Math Friend

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