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10 New Mexico NM-MSSA



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



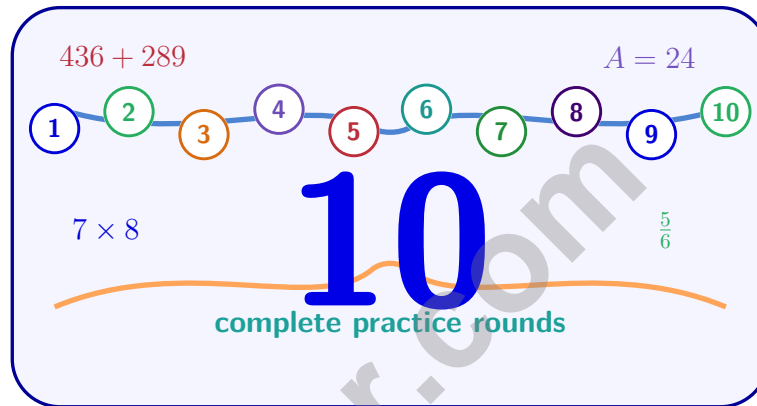
Test-Taking
Practice for
Success



Answer Key
for Easy
Review

10 New Mexico NM-MSSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 practice rounds for NM-MSSA, built around mesa views, bright art patterns, and careful fraction thinking, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, New Mexico Math Explorer!

Ten steady rounds on the Land of Enchantment math route

This book gives you ten full Grade 3 practice tests for NM-MSSA. Each round uses mesa views, bright art patterns, and careful fraction thinking to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

New Mexico 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 New Mexico NM-MSSA 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 Land of Enchantment 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 NM-MSSA 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 New Mexico 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.

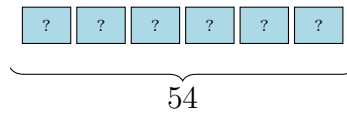


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1) Look at this bar model. It shows 6 equal parts. The total is 54.



$$6 \times \square = 54$$

A. 8

C. 10

B. 11

D. 9

2) Which fraction is equivalent to $\frac{2}{4}$?

A. $\frac{2}{3}$

C. $\frac{1}{2}$

B. $\frac{3}{4}$

D. $\frac{2}{8}$

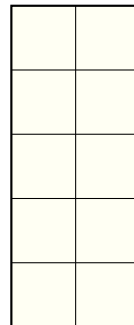
3) Noah had 300 cookies. He gave away 145 cookies to his friends. How many cookies does Noah have left?

A. 155

C. 445

B. 165

D. 245



4)

Count the unit squares in this tall rectangle. What is its area?

A. 7 square units

C. 10 square units

B. 9 square units

D. 12 square units



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5) How many minutes after 6 : 15 is 6 : 35?

6) Which multiplication fact helps you solve $10 \div 2 = ?$

A. $2 \times 5 = 10$

C. $10 \times 2 = 20$

B. $2 \times 10 = 20$

D. $5 \times 5 = 25$

Width



Length

7)

If a rectangle has length 6 cm and width 4 cm, what is the length of the opposite long side?

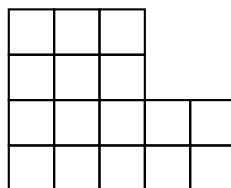
A. 4 cm

C. 10 cm

B. 6 cm

D. 24 cm

8) This composite figure is shaped like an "L" made of unit squares:



Count all the unit squares in this L-shaped figure. How many are there?

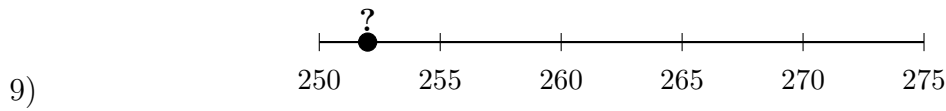
A. 8 unit squares

C. 16 unit squares

B. 12 unit squares

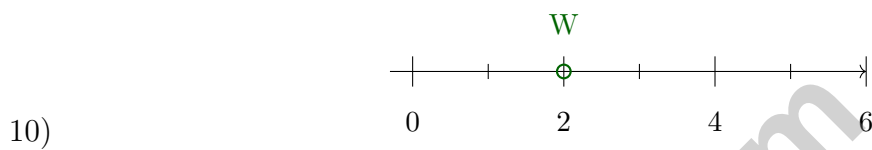
D. 20 unit squares





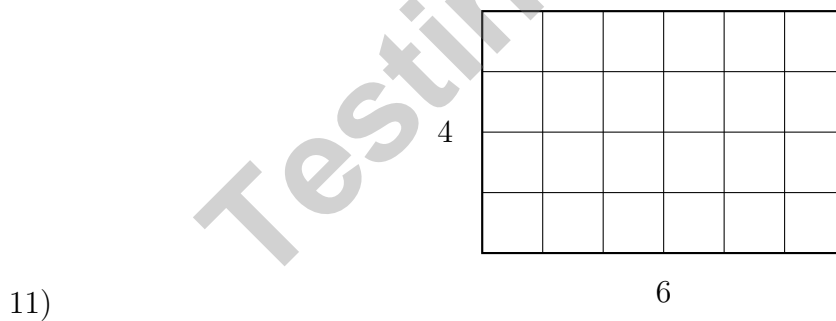
Look at the number line. The number marked ? is closest to which value when rounded to the nearest 10?

- A. 250 C. 260
 B. 265 D. 270



The number line from 0 to 6 is divided into halves. Point *W* is shown. What improper fraction or mixed number is point *W*?

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



The rectangle is tiled with unit squares. How many unit squares are there?

- A. 10 C. 24
 B. 20 D. 48



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1) Which multiplication has an odd product?

A. 6×3

C. 5×7

B. 4×7

D. 8×2

2) A classroom is shaped like an L. One part is 8 units by 3 units. The other part is 5 units by 2 units. What is the total area of the classroom?



3) Ben has a chocolate bar. He divides it into 3 equal pieces. What fraction is each piece?

A. $\frac{2}{3}$

C. $\frac{3}{1}$

B. $\frac{1}{3}$

D. $\frac{1}{2}$

4) $308 + 175 = ?$

A. 483

C. 475

B. 484

D. 493

5) A square mural is made of unit tiles. It has 6 columns and 6 rows. What is the area of the mural?

A. 12

C. 36

B. 24

D. 66



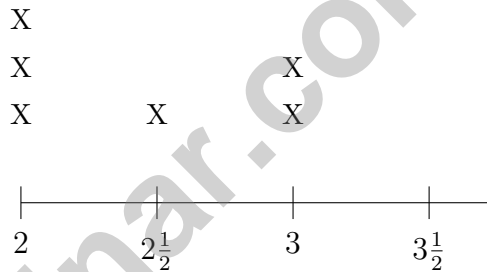
6) A rectangular garden on a grid is 2 meters long and 3 meters wide. Count by skip-counting: $3 + 3$. What is the area?

- A. 2 sq m (counted just one side) C. 5 sq m (added length and width)
 B. 3 sq m (counted just one side) D. 6 sq m (counted all squares)

7) Ben has $\frac{2}{2}$ of a sticker sheet. Write an equivalent fraction with denominator 4.

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

8) Sam measured the heights of flower stems in inches. The line plot below shows halves: $2, 2\frac{1}{2}, 3, 3\frac{1}{2}$.



What is the most common stem height?

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

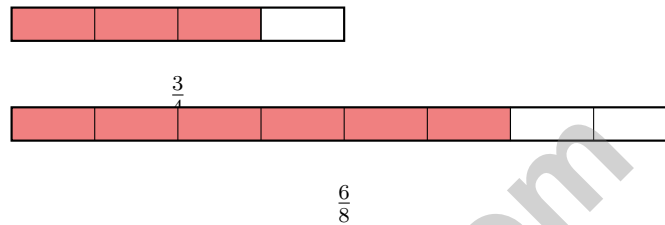


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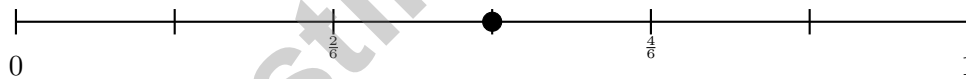
- 1) A baker has 42 cookies to pack equally into 6 bags. After packing 2 bags, how many cookies are left in the remaining bags? Let c represent the cookies in the remaining bags. Which equation shows the correct steps?

- A. $c = 42 \div 6 \times 4$
 C. $c = 42 - 2 \times 6$
 B. $c = (42 \div 6) \times (6 - 2)$
 D. $c = 6 \times 2 - 42$

- 2) Look at the bars. Is $\frac{3}{4}$ equivalent to $\frac{6}{8}$?



- A. Yes, they are equivalent
 C. The second bar is larger
 B. No, they are not equivalent
 D. The first bar is larger
- 3) On a number line from 0 to 1, a point is marked but not labeled. The point is between $\frac{2}{6}$ and $\frac{4}{6}$. Which fraction best describes its position?



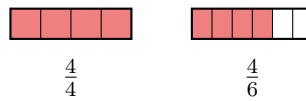
- A. $\frac{2}{6}$
 C. $\frac{4}{6}$
 B. $\frac{3}{6}$
 D. $\frac{5}{6}$
- 4) Noah has a backpack weighing 3 kilograms and a book weighing 500 grams. What is the total mass in grams?

- A. 503 g
 C. 3000 g
 B. 3500 g
 D. 500 g



5) What number makes this equation true?

$$\square \div 5 = 7$$



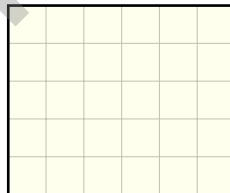
6)

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

- A. $\frac{4}{4} < \frac{4}{6}$
- B. $\frac{4}{4} > \frac{4}{6}$

- C. $\frac{4}{4} = \frac{4}{6}$
- D. $\frac{4}{6} > \frac{4}{4}$

7) On this grid, how many unit squares cover the rectangle?



- A. 11 sq units
- B. 22 sq units

- C. 30 sq units
- D. 35 sq units



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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 turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(3.OA.A.4)** Divide: $54 \div 6 = 9$. Each part is 9. Check: $6 \times 9 = 54$.
- 2) **Choice C is correct.** **(3.NF.A.3a)** $\frac{2}{4}$ simplifies to $\frac{1}{2}$. They represent the same region: one-half.
- 3) **Choice A is correct.** **(3.NBT.A.2)** Subtract: $300 - 145 = 155$. Ones: $0 - 5$ requires regrouping, so $10 - 5 = 5$. Tens: $9 - 4 = 5$ (after regrouping). Hundreds: $2 - 1 = 1$ (after regrouping).
- 4) **Choice C is correct.** **(3.MD.C.5a)** The rectangle is 2 units wide and 5 units tall: $2 \times 5 = 10$ unit squares.
- 5) **The correct answer is 20.** **(3.MD.A.1)** $6 : 35$ is 20 minutes after 6 : 15.
- 6) **Choice A is correct.** **(3.OA.A.2)** Division and multiplication are inverse operations. Since $2 \times 5 = 10$, then $10 \div 2 = 5$.
- 7) **Choice B is correct.** **(3.G.A.1)** In a rectangle, opposite sides are equal. The opposite long side is also the length, which is 6 cm.
- 8) **Choice C is correct.** **(3.MD.C.5b)** Count the left tall part: 3 columns and 4 rows = $4 + 4 + 4 = 12$ unit squares. Count the right bottom part: 2 columns and 2 rows = $2 + 2 = 4$ unit squares. Total: $12 + 4 = 16$ unit squares in this L-shaped figure.
- 9) **Choice A is correct.** **(3.NBT.A.1)** The point is between 250 and 255, closer to 250. A number like 251–254 rounds to 250 (ones digit < 5).
- 10) **Choice B is correct.** **(3.NF.A.2b)** Point W at 2 is the 4th half-mark: $\frac{4}{2} = 2$.
- 11) **Choice C is correct.** **(3.MD.C.7a)** Count rows and columns: $6 \times 4 = 24$ square units. Bridge from visual tiling to multiplication.
- 12) **Choice B is correct.** **(3.MD.C.7d)** Add the parts: $32 + 15 = 47$ square units.
- 13) **Choice B is correct.** **(3.MD.B.4)** At $8\frac{1}{2}$ there are no X's, so it appears least often.
- 14) **The correct answer is $\frac{2}{6}$.** **(3.NF.A.2a)** The second tick out of 6 equal parts is $\frac{2}{6}$.
- 15) **Choice C is correct.** **(3.MD.C.6)** Area = $10 \times 5 = 50$ square centimeters.
- 16) **Choice A is correct.** **(3.MD.C.7c)** The distributive property lets us split 8 into $3 + 5$ and add two smaller areas: $18 + 30 = 48$. This matches tiling the rectangle in two parts.
- 17) **Choices A and C are correct.** **(3.NF.A.1)** A unit fraction has a numerator of exactly 1. Picture A is divided into 2 equal parts with 1 shaded = $\frac{1}{2}$ (unit fraction). Picture C is divided into 3 equal parts with 1 shaded = $\frac{1}{3}$ (unit fraction). Picture B shows $\frac{2}{5}$ (numerator is 2), and Picture D shows $\frac{3}{5}$ (numerator is 3), so neither B nor D is a unit fraction.
- 18) **Choice C is correct.** **(3.MD.A.2)** Divide: $2000 \div 250 = 8$ glasses.
- 19) **Choice D is correct.** **(3.OA.C.7)** $45 \div 5 = 9$ because $9 \times 5 = 45$. Count by fives: 5, 10, 15, 20, 25, 30, 35, 40, 45.
- 20) **Choice D is correct.** **(3.MD.C.5)** For a square: $8 \times 8 = 64$ square inches.
- 21) **Choice C is correct.** **(3.G.A.2)** The rectangle is divided into 2 equal parts. One shaded part is $\frac{1}{2}$.
- 22) **Choice C is correct.** **(3.MD.C.7)** $3 \times 8 = 24$ and $4 \times 6 = 24$. Choice A: 20 and 21. Choice B: 25 and 24. Choice D: 18 and 16.
- 23) **Choice C is correct.** **(3.NF.A.3d)** Same numerator (3), different denominators: fourths are bigger pieces than sixths (the bar is cut into fewer, larger pieces). Three fourths covers more area than three sixths.
- 24) **Choice B is correct.** **(3.MD.B.3)** Piano: $6 \times 2 = 12$. Guitar: $4 \times 2 = 8$. More: $12 - 8 = 4$.
- 25) **The correct answer is 80 square feet.** **(3.MD.C.7b)** Area = length \times width, so $10 \times 8 = 80$ square feet.
- 26) **Choice B is correct.** **(3.NF.A.3c)** The bar shows 4 halves. 4 halves make 2 whole units. $\frac{4}{2} = 2$.
- 27) **Choice D is correct.** **(3.OA.A.1)** The picture shows 5 columns with 2 circles in each column. So $5 \times 2 = 10$ or $2 \times 5 = 10$.
- 28) **Choice A is correct.** **(3.OA.A.3)** Divide: $40 \div 5 = 8$ cups.
- 29) **Choice A is correct.** **(3.NF.A.3)** $\frac{2}{8}$ and $\frac{1}{4}$ both equal one-quarter of a whole.
- 30) **Choice D is correct.** **(3.OA.B.5)** The commutative property says you can switch the order of the factors and still get the same answer. So $2 \times 7 = 7 \times 2 = 14$.



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Hi, Math Inventor!

◇ 10 practice tests. 10 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

PRACTICE TODAY. SUCCEED TOMORROW!

Give your child the advantage they need in **Grade 3 Math** with 10 full-length practice tests that build skills, boost confidence, and improve results. Designed to mirror real test formats, this book helps students master essential math concepts and feel ready for any challenge.



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