

9

New Mexico

NM-MSSA

GRADE 3 MATH

PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY

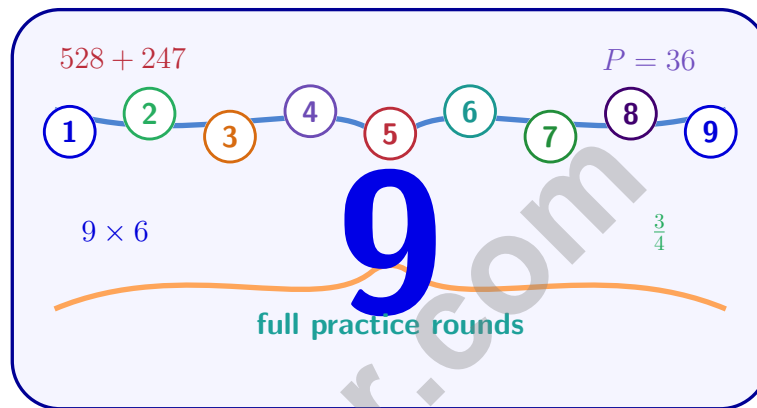


10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 New Mexico NM-MSSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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New Mexico, Start Your Nine-Round Math Trail

A sharp Grade 3 trail from first try to confident finish

This book gives you nine chances to practice like a thoughtful New Mexico NM-MSSA test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

New Mexico has mesa views, desert stars, adobe plazas, mountain trails, and pattern-rich landscapes, where careful steps matter. Strong math follows that same idea: explain what the question asks, choose a useful tool, show the work, and compare before moving on.

Your New Mexico Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear New Mexico review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In New Mexico, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with NM-MSSA support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A New Mexico standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.

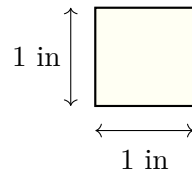


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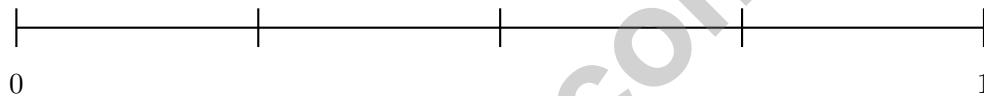
★ Practice Test 1	_____	15
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5) Which measurement describes a unit square in inches?



- A. Side length 2 inches, area 2 square inches
- B. Side length 1 inch, area 1 square inch
- C. Side length 1 inch, area 2 square inches
- D. Side length 2 inches, area 4 square inches

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

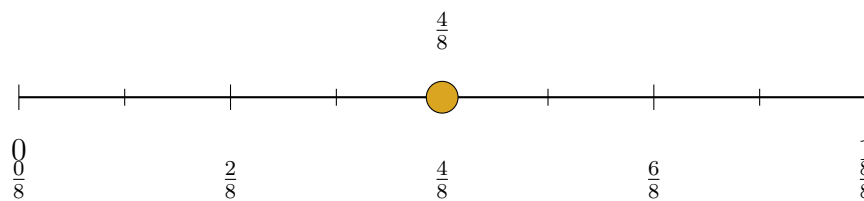


- A. At 0
- B. At the first tick
- C. At the third tick
- D. At the fourth tick

7) A pet store has 9 cages. Each cage has 5 rabbits. Which equation can be used to find the total number of rabbits?

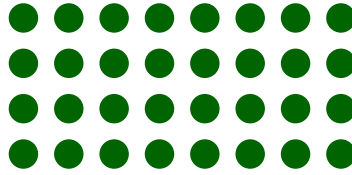
- A. $9 + 5 = 14$
- B. $9 \times 5 = 45$
- C. $5 + 5 = 10$
- D. $9 - 5 = 4$

8) Which of the following is equivalent to $\frac{2}{4}$?



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

- 1) An array has 4 rows and \square columns. There are 32 dots in total. What is the unknown?



$$4 \times \square = 32$$

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

4 inches



6 inches

2)

A rectangular tile is 6 inches long and 4 inches wide. Find the area.

- A. 24 sq in C. 10 sq in
 B. 20 sq in D. 12 sq in

- 3) A piece of cloth is 7 inches by 5 inches. What is its area?

- A. 12 sq in C. 30 sq in
 B. 24 sq in D. 35 sq in



4) Ava eats lunch at noon. Recess starts 25 minutes after lunch. What time does recess start?

A. 12 : 25 PM

C. 1 : 00 PM

B. 12 : 15 PM

D. 1 : 25 PM

5) What is 9×80 ?

A. 72 (forgot to multiply by 10)

C. 89 (added the digits)

B. 7200 (added two zeros)

D. 720

6) A square has a side length of 5 cm. What is the area of the square?

A. 20 cm²

C. 30 cm²

B. 10 cm²

D. 25 cm²

7) A rectangle has a width of 3 feet and a length of 8 feet. The rectangle has 8 rows with 3 unit squares in each row. Find the area by adding: $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = ?$

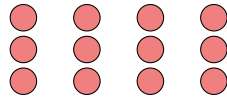
A. 11 sq ft

C. 24 sq ft

B. 16 sq ft

D. 32 sq ft

8)



How many circles are in this picture?

A. 7 circles

C. 9 circles

B. 10 circles

D. 12 circles



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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 A is correct.** **(3.NBT.A.2)** Ones: $2 - 5$ requires regrouping, so $12 - 5 = 7$. Tens: $3 - 1 = 2$. Hundreds: $6 - 2 = 4$. Answer: 427.
- 2) **Choice C is correct.** **(3.MD.A.2)** 1 L = 1000 mL. Subtract: $1000 - 750 = 250$ mL.
- 3) **Choice D is correct.** **(3.OA.A.4)** The total number of stickers is unknown. Since the stickers are shared equally among 3 friends and each friend gets 6, the equation is $\square \div 3 = 6$.
- 4) **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 $\frac{1}{3}$.
- 5) **Choice B is correct.** **(3.MD.C.5a)** A unit square always has a side length of 1 unit and area of 1 square unit, so 1 inch by 1 inch gives area 1 square inch.
- 6) **Choice C is correct.** **(3.NF.A.2)** $\frac{3}{4}$ is 3 out of 4 equal parts, so it is at the third tick mark from 0.
- 7) **Choice B is correct.** **(3.OA.A.1)** Nine cages with five rabbits in each means 9 groups of 5. Option A is a common misconception (adding). Option C only represents two groups. Option D uses subtraction instead of multiplication.
- 8) **Choice B is correct.** **(3.NF.A.3)** $\frac{2}{4}$ and $\frac{4}{8}$ both equal half of a whole and mark the same point.
- 9) **Choice B is correct.** **(3.MD.B.4)** Add: $2 + 4 + 2 = 8$ erasers total.
- 10) **Choice A is correct.** **(3.OA.A.2)** The picture shows 12 items split into 6 equal groups. The division sentence is $12 \div 6 = 2$.
- 11) **Choice A is correct.** **(3.NBT.A.3)** Since $7 \times 50 = 350$, the missing factor is 7. We can work backwards: $350 \div 50 = 7$.
- 12) **Choice B is correct.** **(3.MD.C.5)** The shaded rectangle is 4 units wide and 3 units tall. $4 \times 3 = 12$ square units.
- 13) **The correct answer is $\frac{1}{4}$.** **(3.NF.A.2a)** Each part has length $\frac{1}{4}$.
- 14) **Choice B is correct.** **(3.NF.A.3d)** Same numerator (3), different denominators, same chocolate bar: fourths are larger pieces than eighths. So $\frac{3}{4}$ is more than $\frac{3}{8}$. Noah has more because he has 3 larger pieces.
- 15) **Choices B and C are correct.** **(3.MD.D.8)** Option B: $P = 2(6) + 2(5) = 22$ in. Option C: $P = 2(10) + 2(1) = 22$ in. Option A is 20 in, option D is 18 in, and option E is 24 in.
- 16) **Choice B is correct.** **(3.OA.C.7)** The fact family for 3, 6, and 18 includes: $3 \times 6 = 18$, $6 \times 3 = 18$, $18 \div 3 = 6$, and $18 \div 6 = 3$. Choice B shows one multiplication fact and its related division fact.
- 17) **Choice B is correct.** **(3.NF.A.3c)** When numerator = denominator, the result is always 1 whole. $\frac{3}{3} = 1$.
- 18) **Choice C is correct.** **(3.OA.D.9)** All products are even because one of the factors is even (2, 4, or 6). Even times any number is even.
- 19) **Choice D is correct.** **(3.NF.A.2b)** $\frac{1}{4}$ is the 1st tick; $\frac{3}{4}$ is the 3rd tick. The distance is $3 - 1 = 2$ ticks apart.
- 20) **Choice D is correct.** **(3.MD.A.1)** 2 : 45 PM is exactly the time shown, so it is the closest match.
- 21) **Choice D is correct.** **(3.MD.C.6)** Area of a square = $7 \times 7 = 49$ square meters.
- 22) **Choice C is correct.** **(3.NBT.A.1)** The ones digit is 7. Since $7 \geq 5$, round up: 147 rounds to 150.
- 23) **Choice A is correct.** **(3.MD.C.7c)** $35 = 7 \times 5$ and $21 = 7 \times 3$, so total is $7 \times (5 + 3) = 7 \times 8 = 56$.
- 24) **Choice D is correct.** **(3.MD.C.7b)** Area = length \times width = $8 \times 3 = 24$ square feet.
- 25) **The correct answer is 6.** **(3.NF.A.3a)** The denominator doubles, so the numerator doubles: $3 \times 2 = 6$.
- 26) **Choice A is correct.** **(3.OA.B.6)** $20 \div 4 = \square$ means $\square \times 4 = 20$. Since $5 \times 4 = 20$, there are 5 stickers in each group. Option B (confuses divisor with quotient); Option D adds instead of divides.
- 27) **Choice A is correct.** **(3.NF.A.3b)** Multiply numerator and denominator by 4: $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$. Both show half.
- 28) **Choice B is correct.** **(3.MD.C.7)** The grid has 10 columns and 3 rows. Area = $10 \times 3 = 30$ square units. You can also add: $10 + 10 + 10 = 30$ (three rows of ten).
- 29) **Choice C is correct.** **(3.MD.C.5b)** $10 \times 4 = 40$ unit square tiles are needed.
- 30) **Choice C is correct.** **(3.OA.D.8)** Step 1: Divide: $72 \div 8 = 9$ marbles per bag. Step 2: Remaining bags: $8 - 3 = 5$ bags; kept marbles: $5 \times 9 = 45$ marbles. (Choice A is step 1 only; choice B is incorrect calculation.)



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Hi, Math Athlete!

◇ 9 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

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