

6

New Mexico NM MSSA

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations



6 Full-Length
Practice Tests



Detailed Answer Keys
and Explanations



Master Skills.
Boost Scores.
Succeed!

6 New Mexico NM-MSSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question practice labs for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome to the Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the New Mexico NM-MSSA. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

New Mexico brings mesa views, desert stars, adobe plazas, and mountain trails. Strong math uses that same care: read the task, select a strategy, build the solution, and use patterns to guide each decision.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For New Mexico students, each lab is a short route through mesa views, desert stars, adobe plazas, and mountain trails: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.



What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how New Mexico Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the New Mexico NM-MSSA path.



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1) Marcus says $4 \times 70 = 4700$. Is he correct? Why or why not?

- A. Yes, he is correct. C. No, the answer is 470.
 B. No, the answer is 280. D. No, the answer is 2800.

2) Eli is filling a rectangular mat with colored unit square patches. The mat measures 11 units by 3 units. How many patches will he need?

- A. 14 patches C. 33 patches
 B. 27 patches D. 44 patches

3) Look at the number line. Which fraction equals $\frac{3}{4}$?



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

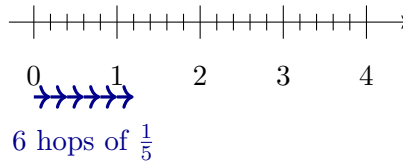
4) Sophia has 50 dollars. She buys 2 items that cost 9 dollars each. How much money does she have left? (Hint: Check that your answer is less than 50.)

- A. 28 C. 32
 B. 30 D. 50

5) Ben bought 3 packs of erasers. Each pack has 8 erasers. How many erasers did Ben buy?

- A. $8 \times 3 = 24$ C. $3 \times 3 = 9$
 B. $3 + 8 = 11$ D. $8 + 8 = 16$





9)

A frog makes 6 equal hops of size $\frac{1}{5}$ on a number line divided into fifths. Where does the frog land after 6 hops?

- A. At $\frac{1}{5}$
 C. At 1
 B. At $\frac{6}{5}$ (between 1 and 2)
 D. At $\frac{5}{6}$

10) Which is true?

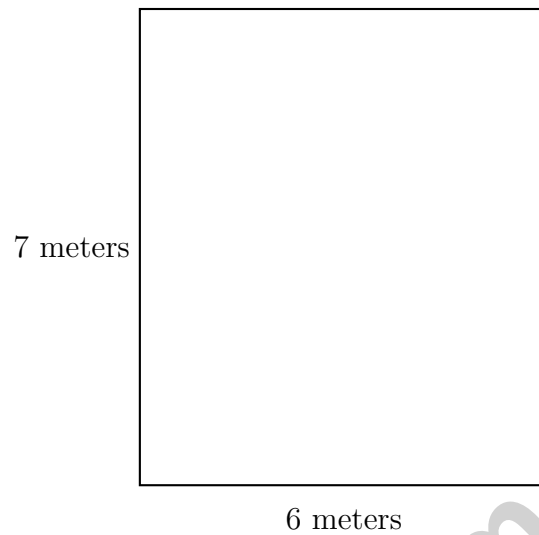
- A. $\frac{1}{8} > \frac{1}{4}$ (8 pieces, so more)
 D. $\frac{1}{4} < \frac{1}{8}$ (quarter is less than an eighth)
 B. $\frac{1}{8} < \frac{1}{4}$ (eighths are smaller pieces)
 C. $\frac{1}{8} = \frac{1}{4}$

11) A composite shape is made of a 7 ft by 2 ft rectangle and a 3 ft by 3 ft rectangle joined together. What is the total area?

12) What is 9×6 ?

- A. 48
 C. 54
 B. 52
 D. 60



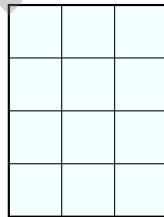


4)

A rectangular wall is 6 meters wide and 7 meters tall. What is the area?

 A. 26 sq m C. 13 sq m B. 42 sq m D. 84 sq m

5) Ben counts unit squares to find the area of a shape. He counts 12 unit squares. What is the area?

 A. 6 square units C. 12 square units B. 10 square units D. 24 square units

1) Which expression means the same as 4×5 ?

- A. $4 + 5$
 C. 5 more than 4
 B. 4 more than 5
 D. 4 groups of 5

2) Lily has one whole cake. Which fraction is this?

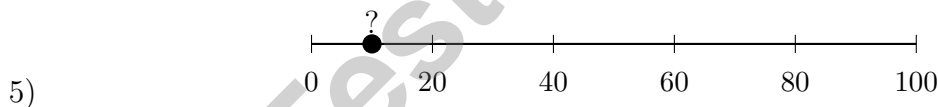
- A. $\frac{1}{4}$
 C. $\frac{1}{1}$
 B. $\frac{4}{1}$
 D. $\frac{4}{5}$

3) Noah marks $\frac{3}{8}$ on a number line from 0 to 1 divided into 8 equal parts. Then he marks $\frac{5}{8}$. How many eighths are between these two points?

- A. 1 eighth
 C. 3 eighths
 B. 2 eighths
 D. 5 eighths

4) A rectangle has area $6 \times (3 + 2)$. Which calculation uses the distributive property correctly?

- A. $6 \times 5 = 30$
 C. $6 + 3 + 2 = 11$
 B. $(6 \times 3) + (6 \times 2) = 18 + 12 = 30$
 D. $(3 \times 2) + (6) = 12$



The point on the number line is closer to which number when rounded to the nearest 10?

- A. 0
 C. 20
 B. 30
 D. 10



6) Ben shares 32 cookies equally among 4 friends. How many cookies does each friend get?

A. 28

C. 9

B. 36

D. 8

7) Sam has a picture frame that is 6 inches long and 3 inches wide. What is the area of the frame?

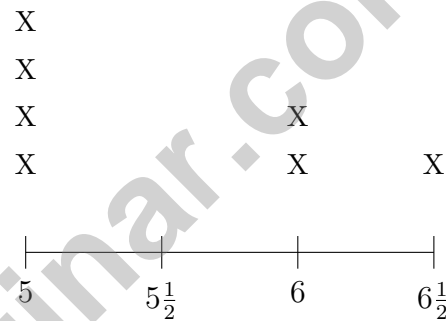
A. 9 sq in

C. 15 sq in

B. 18 sq in

D. 24 sq in

8) 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

C. 7

B. 6

D. 8



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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 B is correct.** **(3.NBT.A.3)** $4 \times 70 = 4 \times 7 \times 10 = 28 \times 10 = 280$. Marcus added two zeros instead of one.
- 2) **Choice C is correct.** **(3.MD.C.5b)** $11 \times 3 = 33$ unit square patches.
- 3) **Choice D is correct.** **(3.NF.A.3)** $\frac{6}{8}$ and $\frac{3}{4}$ mark the same point on the line.
- 4) **Choice C is correct.** **(3.OA.D.8)** Step 1: Cost of items: $2 \times 9 = 18$ dollars. Step 2: Money left: $50 - 18 = 32$ dollars. (Choice D is unreasonable—fails the check; choice B from rounding.)
- 5) **Choice A is correct.** **(3.OA.A.1)** Three packs with eight erasers each is 3 groups of 8, which equals $3 \times 8 = 24$ or $8 \times 3 = 24$. Option B is the addition misconception. Option C uses only one factor. Option D is incomplete (only two groups).
- 6) **Choice B is correct.** **(3.NF.A.2a)** Five ticks (including 0 and 1) create four equal segments. Each segment is $\frac{1}{4}$.
- 7) **Choice A is correct.** **(3.OA.D.9)** Row A shows 3, 6, 9, 12, which are multiples of 3. Row B shows multiples of 5.
- 8) **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.
- 9) **Choice B is correct.** **(3.NF.A.2b)** Six hops of size $\frac{1}{5} = 6 \times \frac{1}{5} = \frac{6}{5} = 1\frac{1}{5}$. The frog lands between 1 and 2.
- 10) **Choice B is correct.** **(3.NF.A.3d)** Same numerator (1): eighths divide the whole into 8 tiny pieces (each piece is small), fourths divide into 4 larger pieces. One eighth (1 tiny piece) < one fourth (1 larger piece). Rule: same numerator, larger denominator means smaller pieces.
- 11) **The correct answer is 23 square feet.** **(3.MD.C.7d)** Rectangle 1: $7 \times 2 = 14$ sq ft. Rectangle 2: $3 \times 3 = 9$ sq ft. Total: $14 + 9 = 23$ sq ft.
- 12) **Choice C is correct.** **(3.OA.C.7)** $9 \times 6 = 54$. Count by 6s: 6, 12, 18, 24, 30, 36, 42, 48, 54.
- 13) **Choice B is correct.** **(3.MD.A.2)** Subtract the milk already in the cup: $900 - 600 = 300$ mL needed.
- 14) **Choice A is correct.** **(3.OA.A.3)** Divide: $36 \div 4 = 9$ pounds per animal.
- 15) **Choice B is correct.** **(3.NF.A.1)** When you add three unit fractions of $\frac{1}{4}$, you get $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$.
- 16) **Choices A and E are correct.** **(3.MD.B.4)** Statement A is correct because $3\frac{1}{2}$ has 3 X's, the most of any value. Statement B is wrong because the total is $2 + 1 + 3 + 2 + 1 = 9$. Statement C is wrong because $3\frac{1}{2}$ is the most common, not the least common. Statement D is wrong because there are 2 measurements at 3 inches and 1 at 4 inches. Statement E is correct because the range is $4 - 3 = 1$ inch.
- 17) **The correct answer is 48.** **(3.OA.B.5)** $6 \times 5 = 30$ and $6 \times 3 = 18$, so $30 + 18 = 48$.
- 18) **Choice C is correct.** **(3.NF.A.2)** The last tick mark shows all 3 parts: $\frac{3}{3} = 1$ (the whole).
- 19) **Choice A is correct.** **(3.MD.C.7)** A square with side 3 has area $3 \times 3 = 9$ square inches.
- 20) **Choice C is correct.** **(3.NF.A.3a)** $\frac{2}{3} = \frac{4}{6}$ because both represent two-thirds of the board.
- 21) **Choice A is correct.** **(3.OA.A.4)** Noah multiplies a number by 5 to get 45. This is a multiplication equation: $\square \times 5 = 45$, so the unknown is 9.
- 22) **Choice D is correct.** **(3.OA.A.2)** The array shows 12 items arranged in 4 rows with 3 items in each row. That division sentence is $12 \div 4 = 3$.
- 23) **The correct answer is 4 equal sides.** **(3.G.A.1)** A rhombus is defined by having 4 equal sides. When that rhombus also has 4 right angles (like a rectangle), it meets the definition of a square. A square is the shape that has properties of BOTH a rhombus and a rectangle.
- 24) **Choice C is correct.** **(3.MD.A.1)** From 3 : 34 to 4 : 34 is 1 hour or 60 minutes. From 4 : 19 to 4 : 34 is 15 minutes. So from 3 : 34 to 4 : 19 is $60 - 15 = 45$ minutes.
- 25) **Choice D is correct.** **(3.MD.C.6)** $5 \times 8 = 40$ unit squares.
- 26) **Choice D is correct.** **(3.NBT.A.2)** Ones: $1 - 9$ requires regrouping, so $11 - 9 = 2$. Tens: after regrouping, $4 - 2 = 2$. Hundreds: $7 - 3 = 4$. The correct answer is 422, so $751 - 329 = 412$ is incorrect.
- 27) **Choice A is correct.** **(3.NBT.A.1)** The tens digit is 2. Since $2 < 5$, round down: 523 rounds to 500.
- 28) **Choice B is correct.** **(3.OA.B.6)** $28 \div 4 = \square$ means $\square \times 4 = 28$. Since $7 \times 4 = 28$, the answer is 7. Option A ($6 \times 4 = 24$) is off-by-one. Option D confuses the divisor with the quotient.



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A Note From Your Math Friend

Hi, Math Star!

◇ Wow! You finished 6 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 6 tests, you learned that trying is the most important thing. ★

Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

Big tip for test day: take your time. Read each problem twice. Show your work. Check your answer. 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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