10 New Mexico NM MSSA PRACTICE TESTS

GRADE 6 MATH

Standards-Aligned Review
Mixed Practice & Answer Key

10 PRINTED TESTS
Realistic practice to build confidence and mastery

2 ONLINE TESTS
Extra practice for continued success

DETAILED ANSWER EXPLANATIONS
Learn with step-by-step solutions

FOCUSED & EFFECTIVE
Target key math skills with purposeful practice

10 PRINTED TESTS + 2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.

PRACTICE • REVIEW • SUCCEED

10 New Mexico NM-MSSA Grade 6 Math Practice Tests

Standards-Aligned Pattern-Rich Reasoning for New Mexico Measures of Student Success and Achievement

Ten complete 40-question Grade 6 practice rounds for NM-MSSA, with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

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Jay Daie and Reza Nazari

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Welcome, New Mexico Math Explorer!

Ten steady rounds on an Enchanted math trail

This book gives you ten full Grade 6 practice tests for NM-MSSA. Each round uses desert colors, mesas, and patterns worth noticing as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your New Mexico Practice Promise

Look for the hidden structure before the arithmetic. I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

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Read Plan Check

How to Use This Book

A ten-session routine for pattern-rich reasoning

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Work in a quiet place and answer all 40 questions.
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.

New Mexico review rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.

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What Is Inside?

Ten NM-MSSA tests, 400 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategy choices.
Test 10	Final New Mexico round to show growth across the whole book.
Answer Pages	Compact keys and explanations that show why each answer works.

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The tests are mixed on purpose. Pattern-rich reasoning means recognizing the skill even when the next question changes topic.

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1) A circle has a radius of 12 cm. Using $\pi \approx \frac{22}{7}$, what is the approximate area?

☐ A. 264 cm^2
☐ B. 451.5 cm^2
☐ C. 352 cm^2
☐ D. 528 cm^2

2) Marcus saves \$50 per month. At this rate, how much will he save in one year?

☐ A. \$400
☐ B. \$500
☐ C. \$600
☐ D. \$700

3) A runner completes $\frac{2}{5}$ of a lap in $\frac{1}{3}$ minute. At this pace, how long is one full lap?

☐ A. $\frac{2}{15}$ minute
☐ B. $1\frac{2}{3}$ minutes
☐ C. $\frac{3}{10}$ minute
☐ D. $\frac{5}{6}$ minute

4) A table shows the ratio relationship between tennis balls and tennis rackets in a sports storage room:

Tennis Balls	Tennis Rackets
6	2
9	3
15	5

If this is graphed with tennis balls on the x-axis and tennis rackets on the y-axis, what is the equation of the proportional relationship?

☐ A. $y = 3x$
☐ B. $y = \frac{1}{3}x$
☐ C. $y = x + 4$
☐ D. $y = 6x$

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5) A recipe requires 3 cups of water for every 1 cup of rice. Complete the table and determine if the relationship is proportional.

Rice (cups)	1	2	3
Water (cups)	3	6	?

☐ A. Water = 9 cups; not proportional
☐ B. Water = 9 cups; proportional
☐ C. Water = 8 cups; proportional
☐ D. Water = 6 cups; not proportional

6) A map uses a scale of 1 inch = 25 miles. Two cities are 5 inches apart on the map. How far apart are they in reality?

☐ A. 30 miles
☐ B. 75 miles
☐ C. 100 miles
☐ D. 125 miles

7) A dot plot shows the number of pets owned by 10 families: 0, 1, 1, 2, 2, 2, 3, 3, 4, 5. Which measure of center is MOST resistant to the outlier value of 5 pets?

☐ A. Mean
☐ B. Median
☐ C. Mode
☐ D. Range

8) A rectangle has vertices at $(1, 1)$, $(10, 1)$, $(10, 4)$, and $(1, 4)$. What is the perimeter of this rectangle?

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9) Class B scores are $60, 75, 85, 95, 100$ with mean 83. Find the mean absolute deviation.

10) Simplify the ratio $25 : 35$ to its lowest terms.

- ☐ A. $10 : 14$
- ☐ B. $7 : 5$
- ☐ C. $25 : 35$
- ☐ D. $5 : 7$

11) In a video game, the ratio of points earned to power-ups collected is $8 : 2$. Which phrase correctly describes this ratio?

- ☐ A. For every 2 points there are 8 power-ups.
- ☐ B. There are exactly 8 points and 2 power-power-ups total.
- ☐ C. For every 1 point there are 4 power-ups.
- ☐ D. For every 8 points there are 2 power-ups.

12) An online service charges \$35 per month. How much will it cost for a full year?

- ☐ A. \$47
- ☐ B. \$280
- ☐ C. \$360
- ☐ D. \$420

13) A water fountain fills 10 gallons in 2 minutes. What is the unit rate in gallons per minute?

- ☐ A. 2 gal/min
- ☐ B. 5 gal/min
- ☐ C. 8 gal/min
- ☐ D. 20 gal/min

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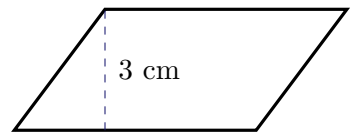
1) A data set has the values $10, 12, 14, 16, 18$. The mean is 14. What is the mean absolute deviation?

☐ A. 1.5
☐ B. 2
☐ C. 2.4
☐ D. 4

2)

Parallelogram



6 cm

What is the area of the parallelogram?

☐ A. 9 cm^2
☐ B. 18 cm^2
☐ C. 27 cm^2
☐ D. 36 cm^2

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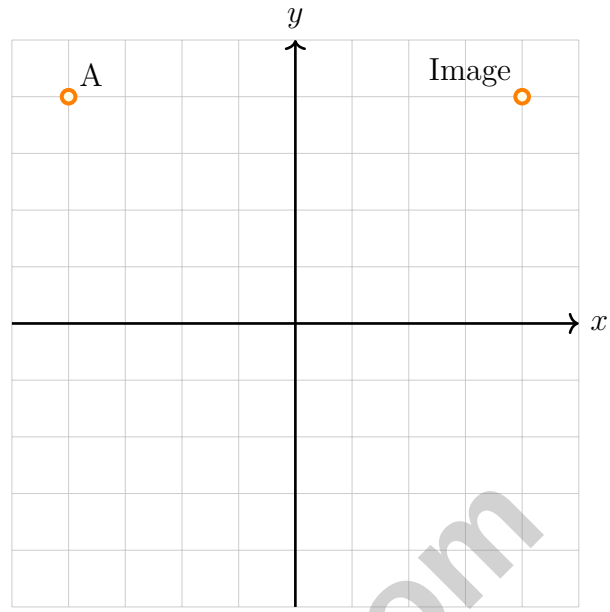
3)

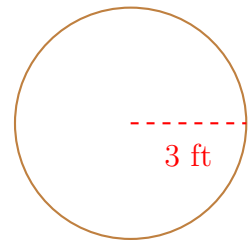


When $(-4, 4)$ is reflected over the y-axis, which describes the transformation?

- ☐ A. The point moves to $(4, 4)$
- ☐ B. The point moves to $(-4, -4)$
- ☐ C. The point stays at $(-4, 4)$
- ☐ D. The point moves to $(4, -4)$

4)

Circular Pool



A circular pool has a radius of 3 feet. What is the approximate area using $\pi \approx 3.14$?

- ☐ A. 9.42 ft^2
- ☐ B. 18.84 ft^2
- ☐ C. 28.26 ft^2
- ☐ D. 56.52 ft^2

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1) A video streaming service charges \$8 per month. If m is months and T is total cost, the equation is $T = 8m$. What does the number 8 in the equation represent?

☐ A. The total cost
☐ B. The monthly charge
☐ C. The number of months
☐ D. The type of service

2) If 42 out of 150 people choose option A, what is the closest percent?

☐ A. 28%
☐ B. 30%
☐ C. 35%
☐ D. 42%

3) If a book's price increases from \$20 to \$24, what is the percent increase?

☐ A. 20%
☐ B. 25%
☐ C. 30%
☐ D. 40%

4) A fruit vendor sells apples at a rate shown in the ratio table. If the vendor sells 18 pounds of apples, how much money does the vendor earn?

Apples (pounds)	Money (\$)
6	9
18	?

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5) A paint color requires red and blue in a ratio of 3 : 2. If you use 9 cans of red paint, how many cans of blue paint do you need?

☐ A. 4 cans
☐ B. 6 cans
☐ C. 8 cans
☐ D. 10 cans

6) A pencil is 150 millimeters long. How many centimeters long is the pencil? (Use 1 centimeter = 10 millimeters.)

☐ A. 15 cm
☐ B. 1500 cm
☐ C. 1.5 cm
☐ D. 150 cm

7) What is the greatest common factor (GCF) of 24 and 36?

☐ A. 6
☐ B. 8
☐ C. 12
☐ D. 24

8) Which two expressions are equivalent?

☐ A. $8(5+3)$ and $40+24$
☐ B. $8(5+3)$ and $8+8$
☐ C. $8(5+3)$ and $45+24$
☐ D. $8(5+3)$ and $40+3$

9) A football team loses 15 yards on a play. How should this be represented as an integer?

☐ A. 15
☐ B. -15
☐ C. $\frac{15}{2}$
☐ D. 0

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New Mexico NM-MSSA Practice Test Answer Keys

How to use this section with a Grade 6 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.** 6.RP.A.3 Area $= \pi r^2 \approx \frac{22}{7} \times 12^2 = \frac{22}{7} \times 144 = \frac{3168}{7} \approx 452.3 \approx 452$ cm^2.
2) **Choice C is correct.** 6.G.A.4 One year has 12 months: $\$50 \times 12 = \$600$.
3) **Choice D is correct.** 6.EE.B.8 If $\frac{2}{5}$ lap takes $\frac{1}{3}$ minute, one lap takes $\frac{1}{3} \div \frac{2}{5} = \frac{1}{3} \times \frac{5}{2} = \frac{5}{6}$ minute.
4) **Choice B is correct.** 6.SP.A.2 The ratio is 6 balls:2 rackets, which simplifies to 3:1. So for every 3 tennis balls (x), there is 1 tennis racket (y). The constant of proportionality is $k = \frac{2}{6} = \frac{1}{3}$. Therefore, $y = \frac{1}{3}x$.
5) **Choice B is correct.** 6.SP.B.5c The ratio is water:rice $= 3:1$. For 3 cups of rice, water $= 3 \times 3 = 9$ cups. The ratio is constant (3:1 throughout), so the relationship is proportional.
6) **Choice D is correct.** 6.SP.B.4 Multiply: 5 inches $\times$ 25 miles/inch $=$ 125 miles.
7) **Choice B is correct.** 6.SP.B.5 The median (middle value when ordered) is 2.5, largely unaffected by the outlier 5. The mean becomes 2.3 (affected), mode is 2, and range is 5 (which reflects the outlier).
8) **The correct answer is** 26. 6.RP.A.3 Length $= 10 - 1 = 9$ units; width $= 4 - 1 = 3$ units. Perimeter $= 2(9 + 3) = 2(12) = 26$ units.
9) **The correct answer is** 12. 6.NS.B.3 The absolute deviations are $23, 8, 2, 12, 17$. Their sum is 60, and $60 \div 5 = 12$.
10) **Choice D is correct.** 6.NS.C.7d Both 25 and 35 are divisible by 5. Dividing both parts by 5 gives $\frac{25}{5} : \frac{35}{5} = 5 : 7$.
11) **Choice D is correct.** 6.EE.C.9 The ratio $8:2$ means the first quantity, points, is matched with the second quantity, power-ups. So the correct phrase is "for every 8 points there are 2 power-ups."
12) **Choice D is correct.** 6.G.A.1 Multiply the monthly rate by 12 months: $35 \times 12 = 420$ dollars per year.
13) **Choice B is correct.** 6.NS.B.3 Divide total gallons by time: $10 \div 2 = 5$ gallons per minute.
14) **Choice D is correct.** 6.SP.A.2 The ratio is $7:5$. When chips are 35 (multiply by 5), pretzels are $5 \times 5 = 25$ bags.
15) **Choice C is correct.** 6.NS.A.1 $\frac{9}{10} = \frac{90}{100} = 90\%$.
16) **Choice C is correct.** 6.EE.A.3 65% of $200 = 0.65 \times 200 = 130$ gallons.
17) **Choice B is correct.** 6.EE.A.2a Distance $=$ Rate $\times$ Time $= 45 \times 3 = 135$ miles.
18) **Choice D is correct.** 6.EE.A.2b Convert: 2 yards $= 2 \times 36 = 72$ inches (since 1 yard $=$ 36 inches). Add 6 inches: $72 + 6 = 78$ inches.
19) **The correct answer is** 65. 6.EE.A.2c $Q_3 = Q_1 +$ IQR $= 40 + 25 = 65$.
20) **The correct answer is Statements A, B, D, and E are correct; C is false..** 6.EE.A.3 A: $2.5 \times 2 \times 4 = 20$ m^3 ✓. B: $16 \times 3 = 48$ in^3 ✓. C: $3 \times 4 \times 5 = 60$ ft^3 (not 70) ×. D: $6 \times 2 \times 3 = 36$ cm^3 ✓. E: $10 \times 5 = 50$ m^3 ✓.
21) **Choice C is correct.** 6.NS.B.3 Total allocated: $35\% + 15\% + 10\% = 60\%$. Remaining: $100\% - 60\% = 40\%$ of $\$3600 = 0.40 \times 3600 = \$1440$.
22) **Choice A is correct.** 6.EE.B.5 $6{,}292 \div 34 = 185$ remainder 2. Since the remainder is small, it rounds down to 185.
23) **Choice B is correct.** 6.G.A.1 $56 = 8 \times 7 = (2 \times 2 \times 2) \times 7 = 2^3 \times 7$. Options A, C, and D contain composite factors.
24) **Choice B is correct.** 6.G.A.2 GCF of 15 and 10 is 5. Thus $15 + 10 = 5(3 + 2)$. Choice A uses factor 3 (not the greatest); Choice C uses 2 (not a common factor of both); Choice D uses 10 but yields 30, not 25.
25) **The correct answer is** 22. 6.G.A.3 Range $=$ Max $-$ Min $= 44 - 22 = 22$.
26) **Choice B is correct.** 6.SP.B.4 The difference in elevation is found by subtracting: $3500 - (-800) = 3500 + 800 = 4300$ feet.
27) **Choice C is correct.** 6.RP.A.3 Check each: A: $2 = 2$ (equal). B: $4 = 4$ (equal). C: $3 \neq 5$ (NOT equal). D: $6 = 6$ (equal).
28) **Choice B is correct.** 6.NS.C.7d The midpoint between -2 and 2 is found by taking the average: $\frac{-2+2}{2} = 0$.
29) **Choice D is correct.** 6.RP.A.1 The point $(5, -3)$ has a positive x-coordinate and a negative y-coordinate. Points with $(+, -)$ are located in Quadrant IV.
30) **Choice C is correct.** 6.SP.B.5c Same y-coordinate (-2): $|6 - 0| = 6$ units.

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Hi, Math Champion!

◇ You trained hard! 10 full practice tests is real practice. Your math game is way better now than when you started. ◇

⋆ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works! ⋆

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie
Your Math Coach

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PRACTICE MORE. ACHIEVE MORE. SUCCEED!

This **Grade 6 Math Practice Tests** book is designed to help students build strong math skills, deepen their understanding of key concepts, and gain the confidence they need to succeed on any test.

With 10 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, strengthen problem-solving abilities, and reach their full potential.

Perfect for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

- Classroom Practice
- Homework & Review
- Independent Learning
- Test Preparation
- Skill Reinforcement
- Building Confidence

CONFIDENCE TODAY. SUCCESS TOMORROW!

WHAT STUDENTS WILL GAIN

Stronger Math Skills
Build a solid foundation through targeted practice and review.

Better Problem Solving
Develop logical thinking and effective solution strategies.

Deepen Understanding
Reinforce key math concepts aligned with standards.

Test Confidence
Get familiar with test formats and improve accuracy.

Achieve Success
Build confidence and perform your best on test day.

TOPICS COVERED

- Ratios & Rates
- The Number System
- Expressions & Equations
- Geometry
- Fractions & Decimals
- Percents
- Statistics & Probability
- Data Analysis
- Measurement & Conversions
- And More!

2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.

10 PRINTED PRACTICE TESTS | **2 ONLINE PRACTICE TESTS** | **DETAILED ANSWER EXPLANATIONS**