

9

New Mexico NM MSSA

GRADE

6

MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



9 PRINTED TESTS

Realistic practice to build confidence and mastery



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



9 PRINTED TESTS
+2 ONLINE TESTS

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

**PRACTICE TODAY.
SUCCEED TOMORROW.**



PRACTICE



REVIEW



SUCCEED

9 New Mexico NM-MSSA Grade 6 Math Practice Tests

Standards-Aligned High-Desert Math Clarity for New Mexico Measures of Student Success and Achievement

$436 + 289$ $A = 24$

1 2 3 4 5 6 7 8 9

7×8 $\frac{5}{6}$

complete New Mexico practice rounds

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

Jay Daie and Reza Nazari



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Welcome, New Mexico Math Explorer!

Nine focused rounds using high-desert math clarity

This book gives you nine full Grade 6 practice tests for NM-MSSA. Each round uses mesa views, desert colors, and thoughtful problem setup 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 structure: identify the relationship, choose a representation, and check the result.

Read

Plan

Check

How to Use This Book

A nine-session routine for high-desert math clarity

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

New Mexico review rhythm: Work a round, study the pattern of misses, and bring one cleaner method into the next test.



What Is Inside?

Nine NM-MSSA tests, 360 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation 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	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. High-desert math clarity means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.

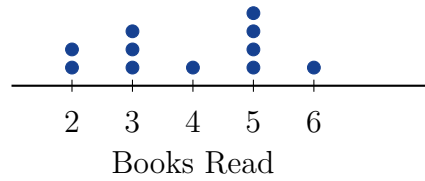


Scan me!
For more practice
& answers

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- 1) A dot plot shows the number of books read by students: 2, 2, 3, 3, 3, 4, 5, 5, 5, 5, 6.
Which value appears most frequently?

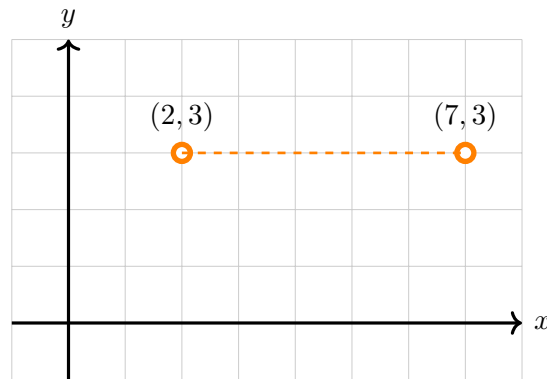


- A. 2 books
- B. 3 books
- C. 5 books
- D. 6 books
- 2) Evaluate: $\frac{7}{12} \div \frac{7}{8}$
- A. $\frac{49}{96}$
- B. $\frac{2}{3}$
- C. $\frac{12}{8}$
- D. $\frac{14}{7}$
- 3) A number is 0.67. Write this as a percent.

- 4) Compute: $10.5 - 4.75 + 2.1$

- A. 16.35
- B. 8.15
- C. 7.75
- D. 7.85





5)

What is the distance between $(2, 3)$ and $(7, 3)$?

 A. 4 units C. 6 units B. 5 units D. 7 units

6) Mika used long division to solve $4,284 \div 22$ and got 194 remainder 16. Is Mika's answer correct?

 A. Yes, it is correct. C. No; the remainder is 14. B. No; the quotient is 195. D. No; the answer is 194 remainder 2.

7) A train travels at 80 miles per hour for 2.5 hours. How far does the train travel?

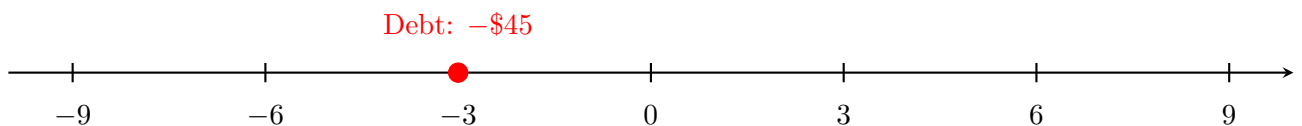
8) A container holds 96 fluid ounces of liquid. How many cups does the container hold?



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- 1) For which type of distribution would the mean and median be most different?
- A. Symmetric distribution C. Highly skewed distribution
 B. Bimodal distribution D. Uniform distribution
- 2) What is 3^3 ?
- A. 9 C. 12
 B. 27 D. 30
- 3) Two different scale drawings are made of the same object. Scale A is 1 inch = 5 feet, and Scale B is 1 inch = 10 feet. Which scale makes a larger drawing?
- A. Scale A (because the scale factor is smaller) C. Both drawings are the same size
 B. Scale B (because it goes up to 10 feet) D. It depends on the object being drawn
- 4) Order from least to greatest:
- $\frac{3}{5}, -\frac{3}{5}, -\frac{1}{5}, \frac{1}{5}$
- A. $-\frac{3}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{3}{5}$ C. $-\frac{1}{5}, -\frac{3}{5}, \frac{1}{5}, \frac{3}{5}$
 B. $\frac{1}{5}, \frac{3}{5}, -\frac{1}{5}, -\frac{3}{5}$ D. $\frac{3}{5}, \frac{1}{5}, -\frac{1}{5}, -\frac{3}{5}$

5)



A bank account has a balance of $-\$45$. What does this represent in terms of absolute value?

- A. The account has \$45 owed C. The account has \$45 in savings
 B. The account has \$45 deposited D. The account is zero



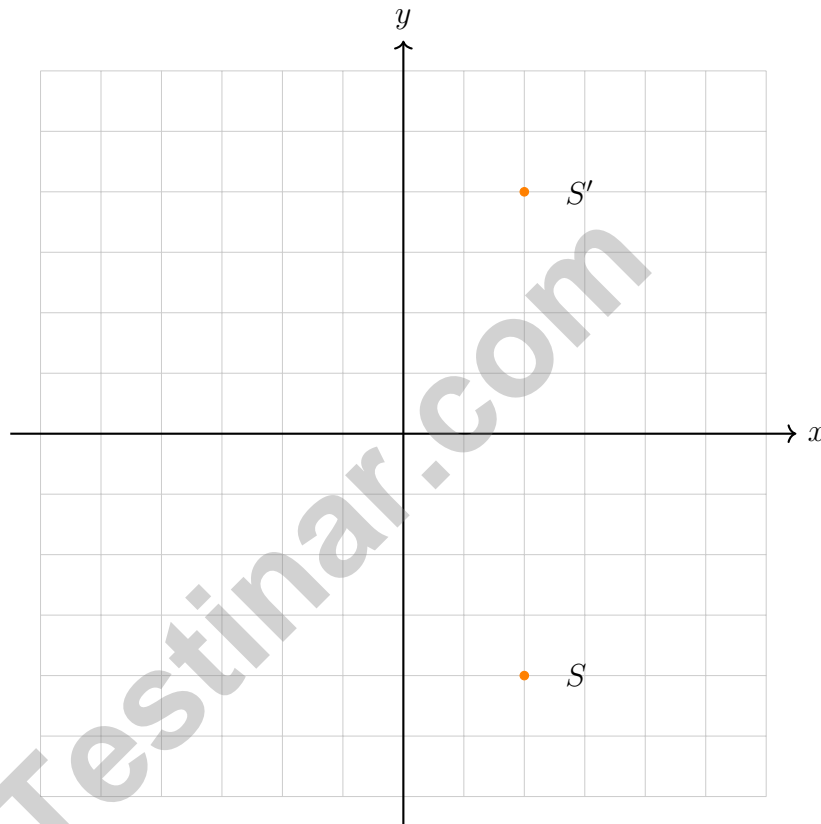
6) Which pair of numbers are opposites on a number line (equal distance from 0 but opposite sides)?

A. -3 and 3

C. -1 and 0

B. -2 and 4

D. 2 and 2.5



7)

Point S is reflected to create point S' . What is the relationship between the x -coordinates of S and S' ?

A. They are opposites

C. They are swapped

B. One is zero

D. They are equal



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5) A survey shows that the probability a person likes ice cream is 90%. What is the probability that a person does **not** like ice cream?

A. 0.1

C. 0.5

B. 0.2

D. 0.9

6) A gym tracks daily visitors with a stem-and-leaf plot. The plot spans stems 10 through 13 (using 2-digit stems). If each stem has at least 2 leaves, what is the minimum number of days recorded?

A. 2

C. 6

B. 4

D. 8

7) The mean of five numbers is 25. Four of the numbers are 20, 22, 28, 30. What is the fifth number?

8) A histogram shows test scores with intervals: 60–69 (frequency 3), 70–79 (frequency 8), 80–89 (frequency 6), 90–99 (frequency 2).

What is the total number of students who took the test?

A. 17

C. 21

B. 19

D. 24



New Mexico NM-MSSA Practice Test Answer Keys

How to use this New Mexico NM-MSSA answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to high-desert math clarity
3. rework the problem before reading the full explanation, using this reminder: Look for structure: identify the relationship, choose a representation, and check the result.

A calm New Mexico correction routine turns every missed item into useful practice. Work a round, study the pattern of misses, and bring one cleaner method into the next test.



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New Mexico Practice Test Answers and Explanations

Review the nine printed NM-MSSA tests with thoughtful, clear, and ready for the next mesa habits.

Practice Test 1 Answers and Explanations

- Choice C is correct. **(6.SP.B.4)** The value 5 appears 4 times, which is more than any other value, making it the mode.
- Choice B is correct. **(6.NS.A.1)** $\frac{7}{12} \times \frac{8}{7} = \frac{56}{84} = \frac{2}{3}$.
- The correct answer is 67%. **(6.RP.A.3c)** Multiply the decimal by 100: $0.67 \times 100 = 67\%$.
- Choice D is correct. **(6.NS.B.3)** Work left to right: $10.5 - 4.75 = 5.75$, then $5.75 + 2.1 = 7.85$.
- Choice B is correct. **(6.NS.C.8)** Same y -coordinate (3): $|7 - 2| = 5$ units.
- Choice A is correct. **(6.NS.B.2)** Check by multiplying and adding the remainder: $22 \times 194 = 4,268$, and $4,268 + 16 = 4,284$. The remainder 16 is less than 22, so Mika's answer is correct.
- The correct answer is 200. **(6.RP.A.3)** Distance = Rate \times Time = $80 \times 2.5 = 200$ miles.
- The correct answer is 12. **(6.RP.A.3d)** Divide: $96 \text{ fl oz} \div 8 \text{ fl oz/cup} = 12$ cups.
- Choice A is correct. **(6.NS.B.4)** Factors of 27: 1, 3, 9, 27. Factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36. Factors of 54: 1, 2, 3, 6, 9, 18, 27, 54. Common to all: 1, 3, 9. GCF is 9.
- Choice A is correct. **(6.NS.C.5)** To order integers from least to greatest, place the most negative number first, then move toward zero and positive numbers. The order is $-4 < -1 < 0 < 2$.
- The correct answer is 4. **(6.NS.C.7d)** Check the ratio each time: $8/2 = 4$, $16/4 = 4$, and $24/6 = 4$. The constant of proportionality is 4.
- Choice B is correct. **(6.NS.C.7c)** Absolute value $|-25| = 25$ represents the magnitude of the temperature change, not its direction.
- Choice D is correct. **(6.NS.C.6c)** Distance = $1.5 - (-3.5) = 1.5 + 3.5 = 5$.
- Choice A is correct. **(6.NS.C.8)** From the graph, point L (upper point) is located at $(-2, 3)$. Its reflection L' across the x -axis is at $(-2, -3)$.
- Choice B is correct. **(6.NS.B.3)** Moving left 3 units from -3 is subtracting 3: $-3 - 3 = -6$.
- Choice A is correct. **(6.NS.B.3)** Negative divided by negative is positive: $\frac{-36}{-6} = 6$.
- Choice D is correct. **(6.EE.B.6)** $7 \times 500 = 3500$ toys per week.
- Choice B is correct. **(6.G.A.1)** Area = $6.5 \times 2.5 = 16.25 \text{ in}^2$.
- Choice A is correct. **(6.G.A.2)** $V = 4 \times 1.5 \times 2.5 = 6 \times 2.5 = 15 \text{ m}^3$.
- Choice A is correct. **(6.G.A.3)** Length = $8 - 2 = 6$ units; width = $5 - 2 = 3$ units. Perimeter = $2(6 + 3) = 18$ units.
- Choice C is correct. **(6.G.A.1)** Base: $10 - 2 = 8$ units. Height: $8 - 2 = 6$ units. Area = $\frac{1}{2} \times 8 \times 6 = 24$ square units.
- The correct answer is Housing and Food are correctly calculated.. **(6.EE.C.9)** A: Housing is $40\% \times 2500 = \$1000$. Correct. B: Food is $24\% \times 2500 = \$600$. Correct. C: Utilities is $10\% \times 2500 = \$250$, not \$200. Incorrect. D: Transportation is $12\% \times 2500 = \$300$, not \$250. Incorrect. E: Savings is $14\% \times 2500 = \$350$, not \$400. Incorrect.
- Choice B is correct. **(6.NS.C.8)** Using the rule $(a, b) \rightarrow (-a, b)$: $(5, -2) \rightarrow (-5, -2)$.
- Choice B is correct. **(6.SP.A.2)** Animated movies have different lengths, requiring data collection. Questions A and C have single fixed answers (one movie's specific length and release date).
- Choice B is correct. **(6.SP.B.5c)** Mean = $\frac{4 + 6 + 8 + 10 + 12}{5} = \frac{40}{5} = 8$.
- Choice C is correct. **(6.SP.B.5)** Lower standard deviation indicates values are closer to the mean. Dataset A (SD = 3) is much more tightly clustered than Dataset B (SD = 12).
- Choice C is correct. **(6.RP.A.3)** Multiply the drawing width by the scale: $3.5 \times 4 = 14$ feet.



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A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 9 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

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

Jay Daie

Your Math Mentor

PRACTICE MORE. ACHIEVE MORE.

This **Grade 6 Math Practice Tests** book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on any test.

With 9 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop 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



**PRACTICE TODAY.
SUCCEED 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.



Deeper 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.



9 PRINTED
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS