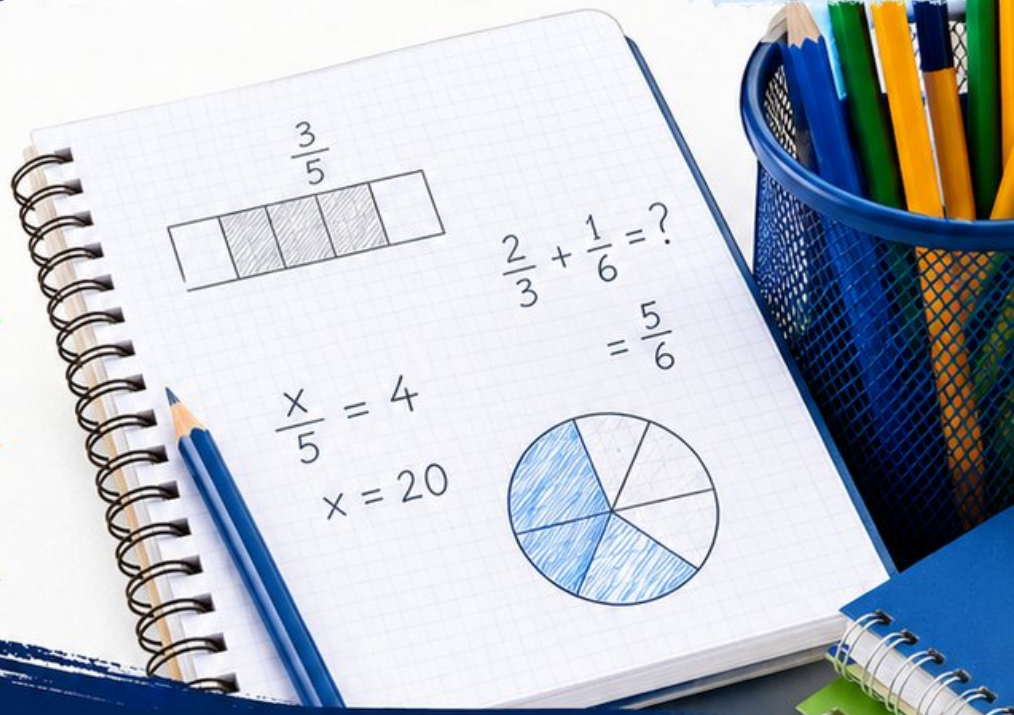
7 New Mexico NM MSSA Grade 6 MATH PRACTICE TESTS

7 PRINTED TESTS + 2 ONLINE TESTS

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

Standards-Aligned *Steady Southern* Problem Solving for Comprehensive Assessment Program

- 7 Full-Length Printed Tests
- Standards-Aligned Math Practice
- Detailed Answer Keys and Explanations
- Build Confidence. Achieve Success.



You've Got This!

PREPARE PRACTICE SUCCEED | PRACTICE WITH PURPOSE | STRENGTHEN MATH SKILLS | REVIEW, IMPROVE, AND SUCCEED

7 New Mexico NM-MSSA Grade 6 Math Practice Tests

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

Seven 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!

Eight focused rounds using high-desert math clarity

This book gives you seven 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.

How to Use This Book

A seven-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?

Eight NM-MSSA tests, 320 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.
Test 7	Final stamina round 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.

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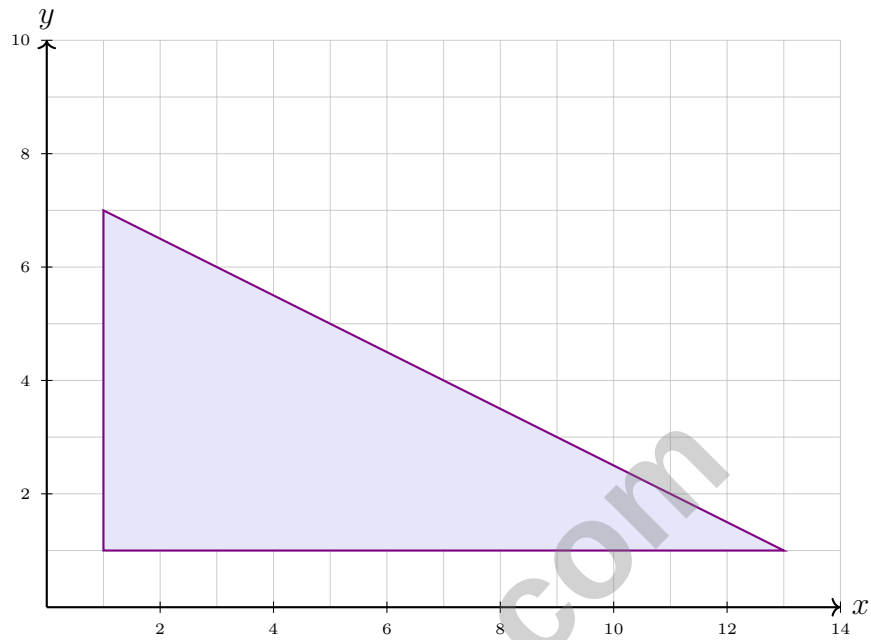
1)



A right triangle has vertices at $(1, 1)$, $(13, 1)$, and $(1, 7)$. What is its area in square units?

☐ A. 36 square units
☐ B. 40 square units
☐ C. 44 square units
☐ D. 48 square units

2) The mean of $5, 8, 12, x$ is 10. What is the value of x?

☐ A. 15
☐ B. 18
☐ C. 25
☐ D. 30

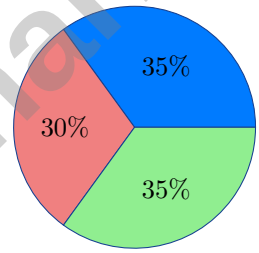
3) A student made an error when calculating the IQR. The data set is: $4, 6, 8, 10, 12, 14, 16$. The student said the IQR is $16 - 4 = 12$. What is the student's mistake?

☐ A. The student calculated the range instead of the IQR.
☐ B. The data set was not ordered correctly.
☐ C. The student forgot to find the median first.
☐ D. The student used the wrong quartile values.

4) A dataset has five-number summary: min $= 0$, $Q_1 = 8$, median $= 12$, $Q_3 = 18$, max $= 30$. A student says "The IQR is 18." Is the student correct?

☐ A. Yes, IQR is always the maximum minus the minimum.
☐ B. No, IQR is the median, which is 12.
☐ C. Yes, IQR is the third quartile value.
☐ D. No, IQR $= 10$, not 18.

5)



The circle graph shows a total of 700 items. How many items are in the 30% section?

☐ A. 200
☐ B. 210
☐ C. 180
☐ D. 245

6) An athlete runs at a speed of 6.5 miles per hour for 2 hours. How many miles does the athlete cover?

7) A frequency table shows students' favorite lunch types. If the table shows pizza (18 students), sandwich (12 students), pasta (15 students), and salad (5 students), which bar graph would correctly represent this data?
Which category has the FEWEST students?

☐ A. Pizza
☐ B. Sandwich
☐ C. Salad
☐ D. Pasta

8) **Table Y: Ratio $a : b$**

a	b
3	9
5	15
7	21
6	17

What is the ratio $a : b$ for the rows that are consistent?

☐ A. 1 : 2
☐ B. 2 : 3
☐ C. 1 : 4
☐ D. 1 : 3

1) What is the coefficient of m in the expression $m + 5n + 2$?

☐ A. 0
☐ B. 1
☐ C. 5
☐ D. 2

2) A scale drawing has a scale of 1 inch = 12 feet. If the actual length of a building is 60 feet, what is its length in the drawing?

☐ A. 4 inches
☐ B. 5 inches
☐ C. 6 inches
☐ D. 7.2 inches

3) The place-value chart shows a decimal. What is the digit in the hundredths place?

Ones	Tenths	Hundredths	Thousandths
3	2	7	5

☐ A. 3
☐ B. 2
☐ C. 7
☐ D. 5

4) Maria is organizing supplies for a field trip. She has 36 pencils and 48 erasers to distribute equally among groups. What is the greatest number of groups she can make if each group gets the same number of pencils and erasers?

☐ A. 4
☐ B. 6
☐ C. 12
☐ D. 24

5) Complete the ratio table:

Left	3	?	15
Right	7	14	?

What are the missing values?

☐ A. 6 and 30
☐ B. 6 and 35
☐ C. 9 and 35
☐ D. 10 and 35

6) A road sign shows the next rest stop is 3 kilometers away. How many meters away is the rest stop?

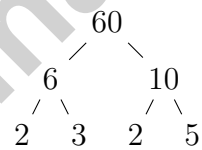
☐ A. 300 meters
☐ B. 0.3 meters
☐ C. 30,000 meters
☐ D. 3,000 meters

7) If Jordan saves $12 per week, how much will he save over 6 weeks?

☐ A. $48
☐ B. $60
☐ C. $72
☐ D. $84

8) Simplify the ratio 36 : 48 to its lowest terms. Show the GCF you use.

9) Using a factor tree, the prime factorization of 60 is:



☐ A. $2^2 \times 3 \times 5$
☐ B. $2 \times 3 \times 5$
☐ C. $2 \times 3 \times 10$
☐ D. $2^3 \times 3$

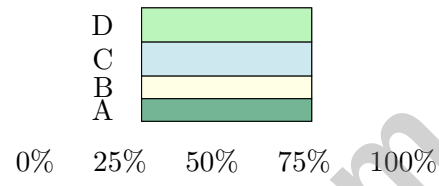
10) Which statement about the number line is FALSE?

☐ A. Negative numbers are to the left of zero
☐ B. The integer -10 is less than -5
☐ C. The number 0 is both positive and negative
☐ D. All positive integers are greater than all negative integers

1) Rewrite the question to make it statistical:
Original: "How fast is my car?"

☐ A. What color is my car?
☐ B. How many cars are in the parking lot?
☐ C. How fast do different cars in the parking lot go?
☐ D. What brand is my car?

2)



This 100% stacked bar graph shows the composition of four categories (A, B, C, D). Which category takes up the largest proportion?

☐ A. A
☐ B. B
☐ C. C
☐ D. D

3)

Type	Count
Red marbles	12
Blue marbles	8

What is the ratio of blue marbles to red marbles in simplest form?

☐ A. 3 : 2
☐ B. 8 : 12
☐ C. 12 : 8
☐ D. 2 : 3

4) A smoothie contains blueberries and strawberries in the ratio 3 : 4. Which pair could NOT describe this smoothie?

☐ A. 6 blueberries and 8 strawberries
☐ B. 9 blueberries and 12 strawberries
☐ C. 12 blueberries and 15 strawberries
☐ D. 15 blueberries and 20 strawberries

5) A student says the rate of 200 miles in 4 hours is 50 miles per hour, but another student says it is 200 miles per hour. Which student is correct and why?

☐ A. The first student is correct; divide $200 \div 4 = 50$ miles per hour
☐ B. The first student is correct; multiply $200 \times 4 = 800$
☐ C. The second student is correct; the distance is 200 miles
☐ D. Both students are equally correct

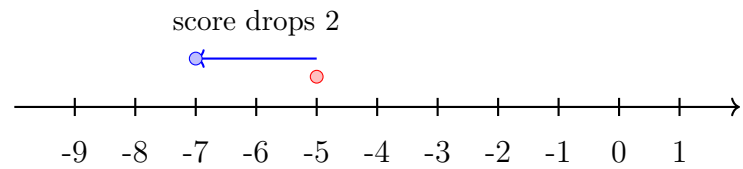
6) If $\frac{3}{4}$ pound of coffee costs \$12, what is the cost per pound?

☐ A. \$9
☐ B. \$12
☐ C. \$16
☐ D. \$18

7) Find the LCM of 8 and 12.

☐ A. 20
☐ B. 24
☐ C. 32
☐ D. 96

8) A golf player has a score of −5 (5 under par). She then plays another hole and her score drops by 2 more strokes. What is her new total score?



☐ A. −7
☐ B. −3
☐ C. 3
☐ D. 7

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.

New Mexico Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

1) **Choice A is correct.** 6.G.A.1 Base: $13-1=12$ units. Height: $7-1=6$ units. Area $=\frac{1}{2}\times 12\times 6=36$ square units.
2) **Choice A is correct.** 6.SP.B.5c Mean $=\dfrac{5+8+12+x}{4}=10\Rightarrow 5+8+12+x=40\Rightarrow x=15$.
3) **Choice A is correct.** 6.SP.B.5c IQR $=Q3-Q1=14-6=8$. The student incorrectly used max $-$ min, which is the range (12), not the IQR.
4) **Choice D is correct.** 6.RP.A.1 IQR is $Q_3-Q_1=18-8=10$. The student may have confused IQR with Q_3 or the range (30).
5) **Choice B is correct.** 6.NS.A.1 30% of 700 is $0.30\times 700=210$ items.
6) **The correct answer is** 13. 6.NS.B.3 Multiply: $6.5\times 2=13$ miles.
7) **Choice C is correct.** 6.RP.A.3 Salad has 5 students, which is fewer than pizza (18), sandwich (12), and pasta (15).
8) **Choice D is correct.** 6.RP.A.3 First three rows: $3:9=1:3$, $5:15=1:3$, $7:21=1:3$ (consistent). Fourth row: $6:17\neq 1:3$ (inconsistent). The consistent ratio is $1:3$.
9) **The correct answer is** 45. 6.NS.C.7d A positive number is greater than a negative number.
10) **Choice D is correct.** 6.G.A.4 A straight line of 6 unit squares cannot fold into a cube without overlap or gaps. Valid cube nets require a more compact 2D arrangement (like a cross or T-shape) such that the net folds into 3D with no overlaps.
11) **Choice A is correct.** 6.SP.B.5 A smaller range indicates less spread and more consistency. Class X's range of 8 is smaller than Class Y's range of 12.
12) **Choice B is correct.** 6.NS.B.3 Unlikely events have probability between 0 and 0.5. Choice B (0.15) is in this range; the others are not.
13) **Choice D is correct.** 6.SP.B.4 Stem 9 includes 90, which is not above 90. Only stems 91-98 are above 90 (5 out of 10), so D is false.
14) **Choice A is correct.** 6.EE.A.1 Parentheses first: $3\times 2=6$. Exponent next: $6^2=36$. Division: $36\div 4=9$. Finally add: $6+9=15$.
15) **Choice D is correct.** 6.EE.A.2a "The product of 3 and 2" is $3\cdot 2=6$. "The difference of s and" that product is $s-3\cdot 2$.
16) **Choice B is correct.** 6.EE.A.2b The coefficient of n is 85. The constant (the term with no variable) is 250.
17) **Choice D is correct.** 6.EE.A.2c Substitute $n=8$: $15(8)+6=120+6=126$ flowers.
18) **Choice B is correct.** 6.EE.B.8 "No more than" means at most 65, which allows 65 and anything less: $s\leq 65$.
19) **Choice D is correct.** 6.EE.B.8 A closed (filled) circle shows that the boundary value is included in the solution set, corresponding to $\leq$ or $\geq$ inequalities.
20) **The correct answer is A and C are correct.** 6.RP.A.3 A: $6\times 3=18$ feet (correct). B: $4\times 3=12$ feet, not 10 (incorrect). C: $21\div 3=7$ inches (correct). D: $9\div 3=3$ inches, not 2 (incorrect). E: $5\times 3=15$ feet, not 16 (incorrect).
21) **Choice D is correct.** 6.SP.A.2 Original mean $=(10+12+14+16+18)/5=14$. With 100: $(10+12+14+16+18+100)/6=28.3$. The outlier pulls the mean up dramatically.
22) **Choice D is correct.** 6.RP.A.1 Count blue first and red second: there are 6 blue and 3 red, so the ratio is $\frac{6}{3}$. Divide the numerator and denominator by 3 to get $\frac{2}{1}$, which means there are 2 blue counters for every 1 red.
23) **Choice A is correct.** 6.RP.A.3d From the double number line, 4 cases correspond to 2 hours. The rate is $4\div 2=2$ cases per hour.
24) **Choice D is correct.** 6.RP.A.3 Cross-multiply: $2\times x=3\times 8$, so $2x=24$, thus $x=12$.
25) **Choice A is correct.** 6.RP.A.3d Divide: $240\div 100=2.4$ meters.

Notes From Your Math Builder

Hi, Math Builder!

◇ Through 7 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

⋆ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ⋆

Builder's Tools

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

Builder tip: on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

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

Jay Daie

Your Math Builder

MASTER TODAY. SUCCEED TOMORROW.

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 comprehensive assessments.

With 7 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.

7 PRINTED TESTS

+

2 ONLINE TESTS

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 concepts aligned with standards through meaningful practice.

Test Confidence

Become familiar with test formats and improve accuracy and speed.

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.

7 FULL-LENGTH PRINTED TESTS

STANDARDS-ALIGNED PRACTICE

DETAILED ANSWER KEYS & EXPLANATIONS