

8

New Mexico

NM MSSA

GRADE 6

MATH

PRACTICE TESTS

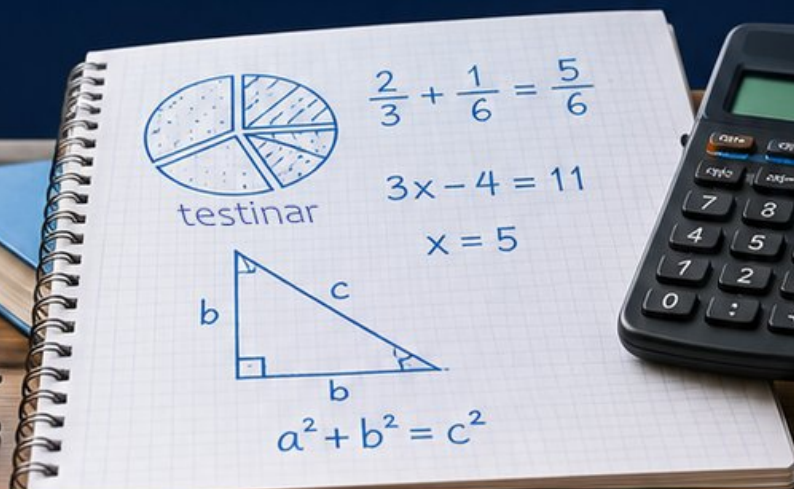
8
PRINTED
TESTS

+

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



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 New Mexico NM-MSSA Grade 6 Math Practice Tests

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



Eight 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



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome, New Mexico Math Explorer!

Eight focused rounds using high-desert math clarity

This book gives you eight 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 eight-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.
Tests 7–8	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

Table of Contents

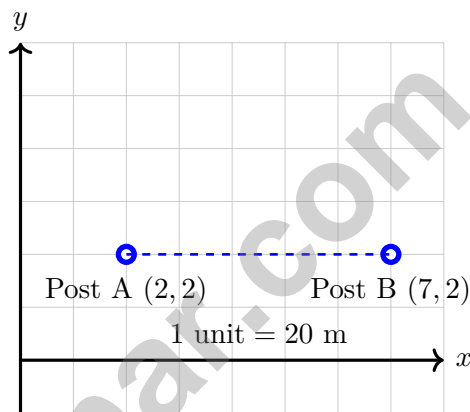
★ Practice Test 1	_____	14
★ Practice Test 2	_____	28
★ Practice Test 3	_____	44
★ Practice Test 4	_____	58
★ Practice Test 5	_____	74
★ Practice Test 6	_____	89
★ Practice Test 7	_____	104
★ Practice Test 8	_____	122
Practice Test Answer Keys	_____	142
Practice Test Answers and Explanations	_____	147

5) Which net cannot fold into a cube without overlapping faces?

- A. T-shaped net with 6 squares C. Cross with 6 squares
 B. Zigzag with 6 squares D. Straight line of 6 squares

6) Which number is closest to zero?

- A. -4 C. -0.3
 B. 2 D. 1.5



7)

Two fence posts are located at $(2, 2)$ and $(7, 2)$ on a map. If each unit equals 20 meters, what is the actual distance between the posts?

- A. 80 m C. 120 m
 B. 140 m D. 100 m

8) What is $\frac{-20}{4}$?

- A. 5 C. -4
 B. 4 D. -5



Scan me!
For more practice
& answers

9) Evaluate: $18 \div 3 + 4^2$

A. 16

C. 26

B. 22

D. 30

10) Which expression matches “the difference of a number t and 3”?

A. $3 - t$

C. $t + 3$

B. $t - 3$

D. $3t$

11) Find the value of $10 - \frac{x}{2}$ when $x = 6$.

A. 5

C. 8

B. 7

D. 13

12) A student plots a rectangle and claims it has vertices at $(2, 2)$, $(5, 2)$, $(5, 5)$, and $(3, 5)$. What is the error?

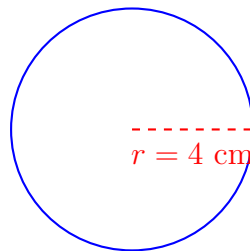
A. The shape is not a rectangle because the sides are not parallel.

C. The shape is a rectangle but with incorrect dimensions.

B. The y -coordinates are wrong.

D. There is no error.

Circle A



13)

What is the approximate area of Circle A? Use $\pi \approx 3.14$.

A. 12.56 cm^2

C. 100.48 cm^2

B. 25.12 cm^2

D. 50.24 cm^2



1) Write an expression for “the product of 6 and the difference of h and 2”.

A. $6h - 2$

C. $(6 - h) \cdot 2$

B. $6 - h - 2$

D. $6(h - 2)$

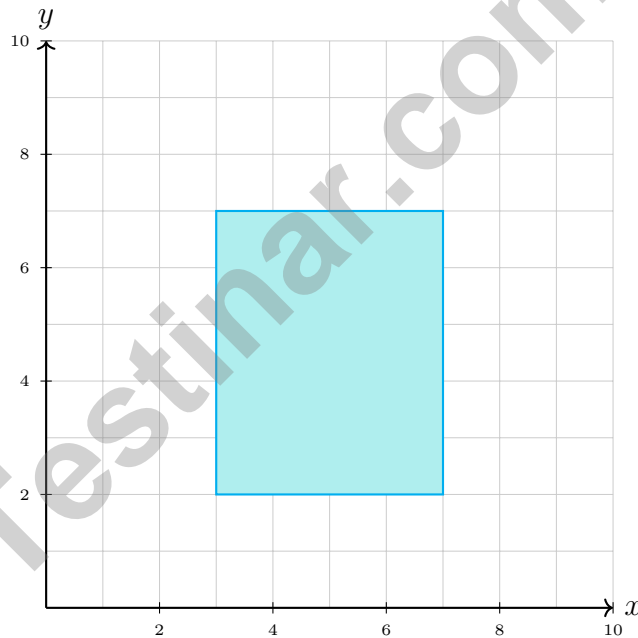
2) A rectangular prism has volume $\frac{80}{3}$ cm³, length $\frac{10}{3}$ cm, and width 4 cm. What is its height?

A. 1 cm

C. 3 cm

B. 4 cm

D. 2 cm



3)

A rectangle has vertices at $(3, 2)$, $(7, 2)$, $(7, 7)$, and $(3, 7)$. What is its area?

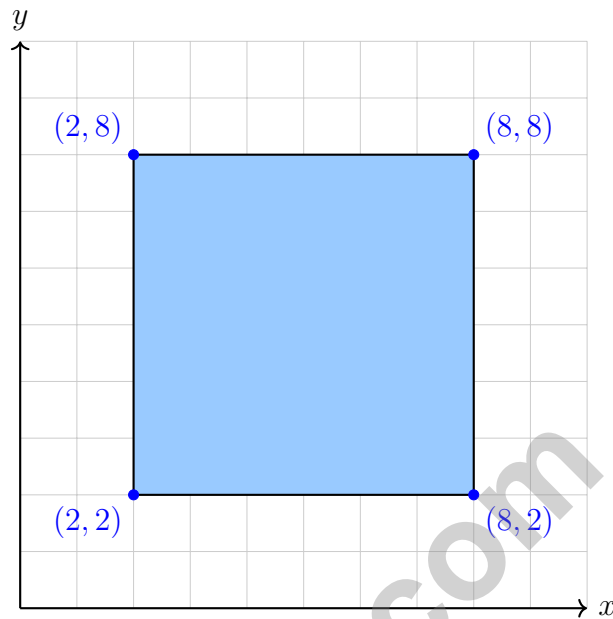
A. 16 square units

C. 20 square units

B. 18 square units

D. 22 square units





1)

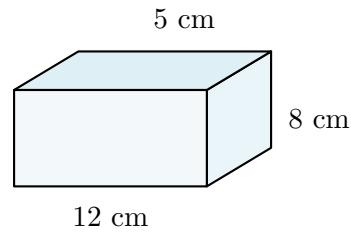
What is the area of this square?

- A. 24 square units C. 36 square units
 B. 32 square units D. 48 square units

2) A parallelogram has a base of 11 cm and a height of 4 cm. What is its area?

- A. 30 cm² C. 15 cm²
 B. 22 cm² D. 44 cm²

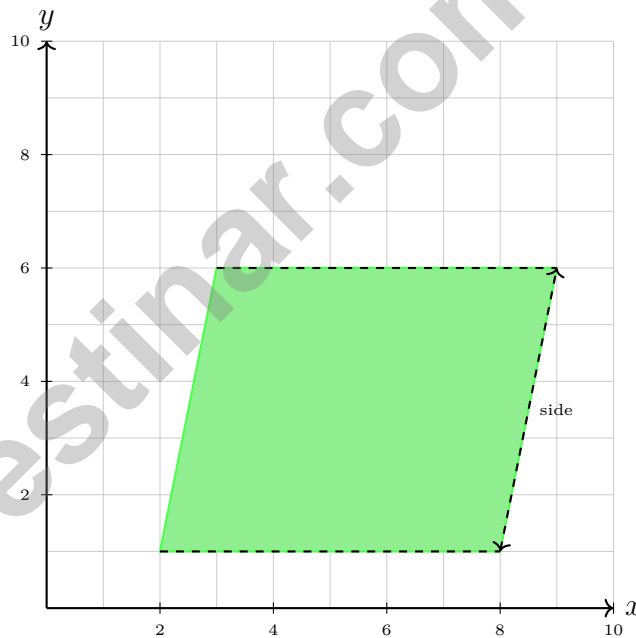




3)

A gift box is 12 cm long, 8 cm wide, and 5 cm high. How many cubic centimeters is its volume?

- A. 25 cm^3 C. 240 cm^3
 B. 120 cm^3 D. 480 cm^3



4)

A parallelogram has vertices at (2, 1), (8, 1), (9, 6), and (3, 6). The base is 6 units and the height is 5 units. What is its area?

- A. 30 square units C. 40 square units
 B. 35 square units D. 42 square units



Scan me!
For more practice
& answers

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

Practice Test 1 Answers and Explanations

- Choice B is correct.** **(6.SP.B.5c)** The outlier 15 heavily skews the mean. The median (middle value) is more representative: 3.
- Choice B is correct.** **(6.SP.A.2)** With 50 values, a histogram with intervals is cleaner and shows the overall shape better than a dot plot with many dots.
- Choice C is correct.** **(6.G.A.1)** Area = $\frac{1}{2}(20 + 8) \times 6 = \frac{1}{2}(28)(6) = 84 \text{ m}^2$.
- Choice B is correct.** **(6.G.A.2)** From $V = L \times W \times H$, we have $120 = L \times 5 \times 4$. So $L = 120 \div 20 = 6 \text{ cm}$.
- Choice D is correct.** **(6.G.A.4)** A straight line of 6 squares cannot fold into a cube. Valid cube nets require the squares to be arranged in 2D such that when folded in 3D, no faces overlap and all edges meet properly. A straight line does not satisfy this geometric constraint.
- Choice C is correct.** **(6.NS.C.7d)** The distance from -0.3 to 0 is 0.3 units, which is smaller than the distances of the other numbers.
- Choice D is correct.** **(6.NS.C.8)** Distance on map: $|7 - 2| = 5$ units. Actual distance: $5 \times 20 = 100$ meters.
- Choice D is correct.** **(6.NS.B.3)** A negative divided by a positive is negative: $\frac{-20}{4} = -5$.
- Choice B is correct.** **(6.EE.A.1)** Exponent first: $4^2 = 16$. Division next: $18 \div 3 = 6$. Finally add: $6 + 16 = 22$.
- Choice B is correct.** **(6.EE.A.2a)** "The difference of t and 3" starts with t , so we compute $t - 3$. Order matters: $3 - t$ gives a different result.
- Choice B is correct.** **(6.EE.A.2c)** Substitute $x = 6$: $10 - \frac{6}{2} = 10 - 3 = 7$.
- Choice A is correct.** **(6.G.A.3)** The vertices $(2, 2)$, $(5, 2)$, $(5, 5)$, and $(3, 5)$ do not form a rectangle. The bottom side goes from $x = 2$ to $x = 5$ (length 3), but the top side goes from $x = 3$ to $x = 5$ (length 2). The sides are not parallel, so it is not a rectangle.
- Choice D is correct.** **(6.RP.A.1)** Using $A = \pi r^2 \approx 3.14 \times 4^2 = 3.14 \times 16 = 50.24 \text{ cm}^2$.
- The correct answer is 4,000.** **(6.EE.B.8)** The maximum value is 4,000.
- Choice A is correct.** **(6.SP.B.5c)** Distances: $|5 - 7.5| = 2.5$, $|6 - 7.5| = 1.5$, $|7 - 7.5| = 0.5$, $|7 - 7.5| = 0.5$, $|8 - 7.5| = 0.5$, $|8 - 7.5| = 0.5$, $|9 - 7.5| = 1.5$, $|10 - 7.5| = 2.5$. Sum = 10. MAD = $10/8 = 1.25$.
- Choice D is correct.** **(6.SP.B.4)** The bars show a peak on the left and a tail extending to the right, which characterizes a right-skewed distribution.
- Choice C is correct.** **(6.RP.A.1)** IQR = $Q_3 - Q_1 = 7.5 - 2.5 = 5$.
- Choice B is correct.** **(6.NS.A.1)** $\frac{7}{16} \times 560 = \frac{3920}{16} = 245$ employees.
- The correct answer is 31.** **(6.EE.B.8)** The greatest whole number less than 32 is 31.
- Choice A is correct.** **(6.RP.A.3)** Bar graphs are most affected because truncating the axis exaggerates the visual difference in heights. The rectangular areas appear disproportionately large or small. Line graphs are less affected; circle and dot plots don't use axes.
- The correct answer is Plan X shows a proportional relationship, and it is represented by $e = 20h$.** **(6.NS.C.7d)** Statement A is correct: Plan X has equation $e = 20h$, so it is proportional. Statement C matches the equation for Plan X. Plan Y has equation $e = 100 + 10h$, so it is not proportional and its graph does not pass through the origin. After 10 hours, both plans pay \$200, so D is false.
- Choice D is correct.** **(6.RP.A.1)** The 8 tomato parts represent 24 plants, so each part is $24 \div 8 = 3$ plants. Pepper plants are 3 parts, so $3 \times 3 = 9$.
- The correct answer is 60.** **(6.EE.C.9)** The speed is $\frac{\text{distance}}{\text{time}}$. From the table, $\frac{60 \text{ mi}}{1 \text{ h}} = 60 \text{ mph}$; or $\frac{180 \text{ mi}}{3 \text{ h}} = 60 \text{ mph}$. The constant rate of change is 60 miles per hour.
- The correct answer is 100.** **(6.G.A.1)** $A = \frac{1}{2} \times 25 \times 8 = 100 \text{ ft}^2$.



Scan me!
For more practice
& answers

Hi, Brave Trail-Walker!

◇ You walked all 8 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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.



Understand Key Concepts

Reinforce important math ideas 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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ 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.



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS