

GRADE

6

MATH

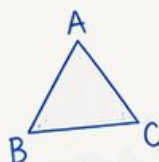
6

West Virginia WVGSA

PRACTICE TESTS

Standards-Aligned
Steady Southern
Problem Solving for
Comprehensive
Assessment Program

$2x + 3 = 11$



$7^2 = 49$

BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!



6 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



6 PRINTED TESTS + 2 ONLINE TESTS

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



PRACTICE

Sharpen skills with targeted practice tests



REVIEW

Understand concepts and strengthen skills

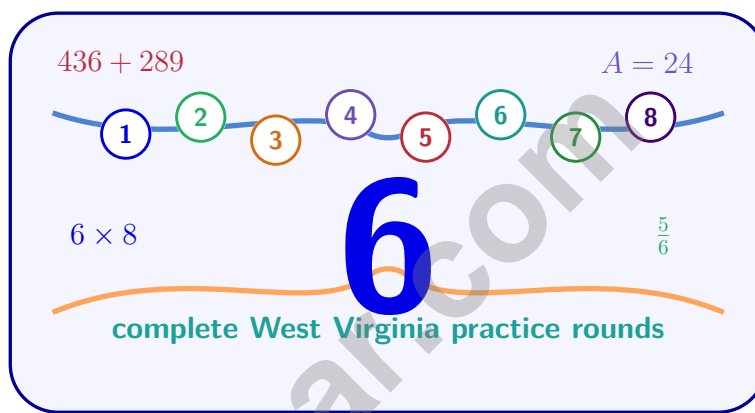


SUCCEED

Build confidence and achieve your best

6 West Virginia WVGSA Grade 6 Math Practice Tests

Standards-Aligned Mountain-State Stamina for West Virginia General Summative Assessment



Six complete 40-question Grade 6 practice rounds for WVGSA, built for mountain-state stamina with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

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Welcome, West Virginia Math Explorer!

Eight focused rounds using mountain-state stamina

This book gives you six full Grade 6 practice tests for WVGSA. Each round uses ridge roads, river valleys, and determined problem solving as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your West Virginia Practice Promise

Climb the problem one step at a time: read, model, solve, and check.

Read

Plan

Check

How to Use This Book

A six-session routine for mountain-state stamina

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

West Virginia review rhythm: Use each test as a climb, then review the steepest parts before the next round.



What Is Inside?

Eight WVGSA tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

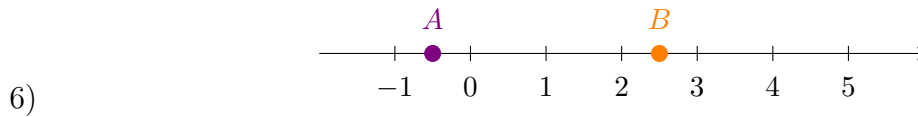
The tests are mixed on purpose. Mountain-state stamina means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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What is the relationship between A and B ?

- A. $A < B$ C. $A = B$
 B. $A > B$ D. A is 3 units left of B

- 7) A school has s students. It also has $s + 25$ staff members. If the school has 600 students, how many staff members does it have?

- 8) If the distance between points $(0, a)$ and $(0, -5)$ is 8 units, what is a ?

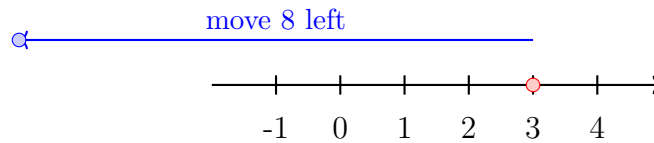
- A. $a = 3$ or $a = -13$ C. $a = 2$ or $a = -12$
 B. $a = -3$ or $a = 13$ D. $a = 5$ or $a = -8$

- 9) Find the area of a triangle with base 25 feet and height 8 feet.



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For more practice
& answers

10) What is $3 - 8$?



A. -5

C. 11

B. 5

D. -11

11) What is $(-8) \times (-3)$?

A. -24

C. 24

B. 11

D. -11

12) A team's record started at 0 wins above .500. They won 3 games and lost 5 games. What is their record above or below .500?

A. 8 wins above

C. -2 wins (below)

B. 2 wins above

D. -8 wins (below)

13) Evaluate: 5^3

A. 15

C. 125

B. 25

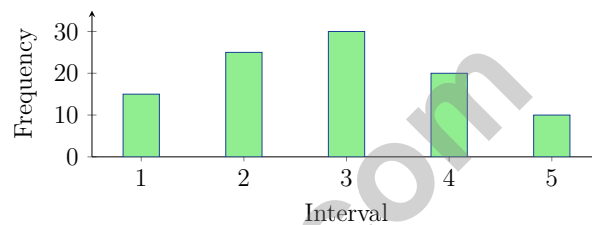
D. 243



1) What is the mean of the data set: 3, 5, 7, 9, 11?

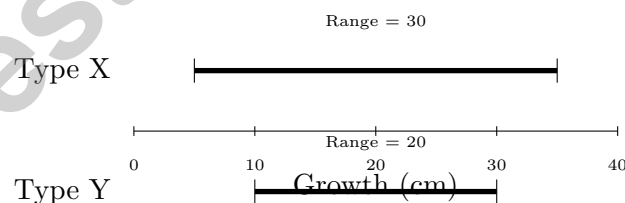
- A. 5 C. 9
 B. 11 D. 7

2) A histogram is divided into five equal intervals for a set of 100 data points. The frequencies are: Interval 1: 15; Interval 2: 25; Interval 3: 30; Interval 4: 20; Interval 5: 10. What is the frequency for Interval 3?



- A. 15 C. 30
 B. 20 D. 25

3) Plant growth (cm) summary table. Type X: Min = 5, Max = 35, Mean = 20. Type Y: Min = 10, Max = 30, Mean = 18. Which statement is best supported?



- A. Type X has more variable growth. C. Type X grows taller on average.
 B. Type Y is more uniform in growth. D. Type Y grows faster.



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4) A coach records vertical jump heights (in inches) for basketball players:

Stem	Leaf
1	8, 9
2	1, 3, 4, 6, 8, 9
3	0, 2, 5

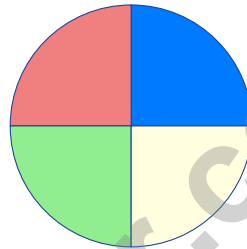
How many players jumped at least 24 inches?

A. 3

C. 6

B. 5

D. 7



5)

If a circle graph is divided into 4 equal sections, how many degrees is each central angle?

A. 90°

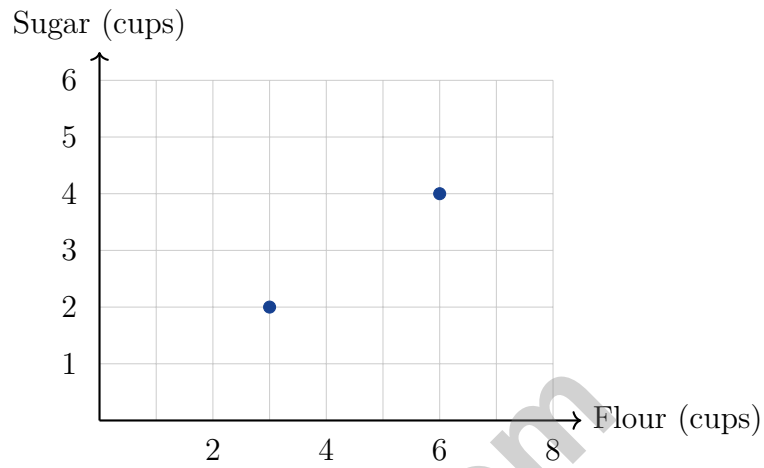
C. 60°

B. 72°

D. 120°



- 4) A recipe uses a 3:2 ratio of flour to sugar. The graph below shows ordered pairs of this ratio.



Which point should also be plotted to continue this ratio pattern?

- A. (4, 3) C. (5, 4)
- B. (9, 6) D. (8, 5)



Scan me!
For more practice
& answers

West Virginia WVGSA Practice Test Answer Keys

How to use this West Virginia WVGSA 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 mountain-state stamina
3. rework the problem before reading the full explanation, using this reminder:
Climb the problem one step at a time: read, model, solve, and check.

A calm West Virginia correction routine turns every missed item into useful practice. Use each test as a climb, then review the steepest parts before the next round.



West Virginia Practice Test Answers and Explanations

Review the six printed WVGSAs with determined, steady, and ready for the next ridge habits.

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (M.6.6) Reading the chart: the digit in the hundredths place is in the third column, which is 7.
- 2) **Choice D is correct.** (M.6.7) This is a GCF problem. The GCF of 40 and 56 is 8. So they can make 8 boxes with 5 chocolate chip and 7 oatmeal cookies in each.
- 3) **Choice D is correct.** (M.6.8) Numbers between -4 and 0 are -3 , -2 , and -1 . The number -5 is less than -4 , so it is not between -4 and 0 .
- 4) **Choice D is correct.** (M.6.28) The decimal -0.5 equals one-half of -1 , which is $-\frac{1}{2}$.
- 5) **Choice B is correct.** (M.6.11) Quadrant II has negative x and positive y . The point $(-3, 5)$ fits this pattern.
- 6) **Choice A is correct.** (M.6.10) $A = -0.5$ and $B = 2.5$. Since $-0.5 < 2.5$, we have $A < B$.
- 7) **The correct answer is 625.** (M.6.17) If $s = 600$, then $\text{staff} = s + 25 = 600 + 25 = 625$.
- 8) **Choice A is correct.** (M.6.11) Same x -coordinate (0): $|a - (-5)| = 8$, so $|a + 5| = 8$. Thus $a + 5 = 8$ or $a + 5 = -8$, giving $a = 3$ or $a = -13$.
- 9) **The correct answer is 100.** (M.6.21) $A = \frac{1}{2} \times 25 \times 8 = 100 \text{ ft}^2$.
- 10) **Choice A is correct.** (M.6.6) $3 - 8 = 3 + (-8) = -5$. Rewrite subtraction as adding the opposite.
- 11) **Choice C is correct.** (M.6.6) Negative times negative equals positive: $(-8) \times (-3) = 24$.
- 12) **Choice C is correct.** (M.6.11) Net record change: $3 - 5 = -2$ (2 games below .500).
- 13) **Choice C is correct.** (M.6.12) $5^3 = 5 \times 5 \times 5 = 125$. The exponent 3 means we multiply 5 by itself 3 times (a cube).
- 14) **Choice A is correct.** (M.6.14) Area model: left rectangle is $4 \times 3x = 12x$; right rectangle is $4 \times 12 = 48$. Total: $12x + 48$.
- 15) **Choice A is correct.** (M.6.16) Divide both sides by 5: $x = 40 \div 5 = 8$.
- 16) **The correct answer is 24.** (M.6.23) Length = $8 - 2 = 6$ units; width = $5 - 1 = 4$ units. Area = $6 \times 4 = 24$ square units.
- 17) **Choice C is correct.** (M.6.19) $-5 < n < 5$ means n is strictly between -5 and 5 . Only 0 satisfies this condition.
- 18) **Choice D is correct.** (M.6.19) "At most" means "less than or equal to," so the inequality is $T \leq 32$.
- 19) **The correct answer is B and C are consistent.** (M.6.3) B: $3 \times 5 = 15$ km (correct). C: $4 \times 5 = 20$ km (correct). A: $2 \times 5 = 10$ km, not 8 (incorrect). D: $5 \times 5 = 25$ km, not 30 (incorrect). E: $6 \times 5 = 30$ km, not 35 (incorrect).
- 20) **Choice D is correct.** (M.6.20) Gallons filled equals the rate of 8 gallons per minute times the number of minutes: $g = 8m$.
- 21) **Choice C is correct.** (M.6.22) $V = 6.5 \times 4 \times 2.5 = 26 \times 2.5 = 65 \text{ dm}^3$.
- 22) **The correct answer is 200.96.** (M.6.3) Area = $\pi r^2 \approx 3.14 \times 8^2 = 3.14 \times 64 = 200.96 \text{ ft}^2$.
- 23) **Choice D is correct.** (M.6.21) Width: $9 - 3 = 6$ units. Height: $5 - 2 = 3$ units. Area = $6 \times 3 = 18$ square units.
- 24) **Choice C is correct.** (M.6.24) A net with a central rectangle surrounded by 4 rectangles and 1 more makes 6 rectangles total, corresponding to the 6 faces of a rectangular prism.
- 25) **Choice D is correct.** (M.6.25) The population is the entire group being studied. The 12 players are a sample from the full population of all basketball players in the league.
- 26) **Choice C is correct.** (M.6.26) Range = Max - Min = $90 - 70 = 20$.
- 27) **Choice B is correct.** (M.6.26) Mean = $\frac{20 + 30 + 40 + 50}{4} = \frac{140}{4} = 35$.
- 28) **Choice C is correct.** (M.6.28) With 10 values, the median is the average of the 5th and 6th values: $(8 + 8) / 2 = 8$ hours.



Hi, Math Champion!

◇ You trained hard! 6 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

PRACTICE 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 6 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.

6
PRINTED
TESTS

+

2
ONLINE
TESTS

PERFECT FOR:

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

★ BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!

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.



6 FULL-LENGTH
PRINTED TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS