

3

West Virginia

WV/GSA

GRADE

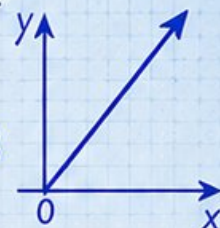
6

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

$$y = 2x + 3$$



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

$$36\% \text{ of } 150 = ?$$



3 | PRINTED TESTS



2 | ONLINE TESTS



Build Confidence



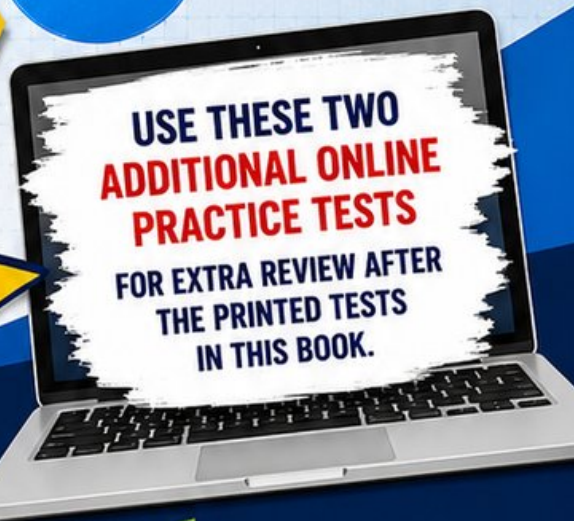
Master Key Math Skills



Answer Explanations for Every Question

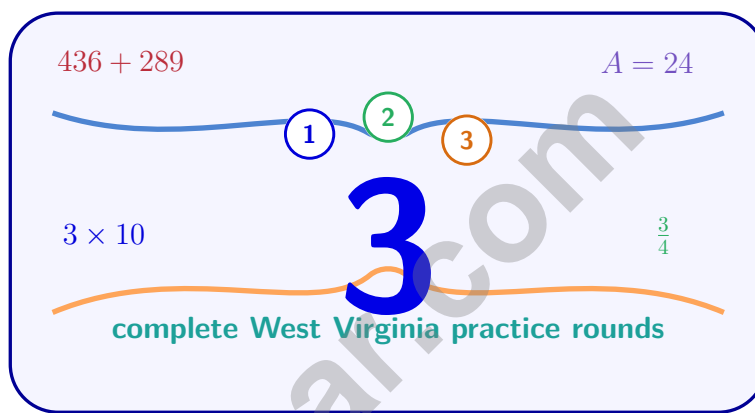


Test-Taking Strategies That Work



3 West Virginia WVGSA Grade 6 Math Practice Tests

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



Three 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!

Three focused rounds using mountain-state stamina

This book gives you three 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 three-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?

Three WVGSA tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
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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1) A gardener plants flowers in rows. The expression $15n + 6$ gives the total number of flowers, where n is the number of rows. If there are 8 rows, how many flowers are there?

A. 29

C. 134

B. 120

D. 126

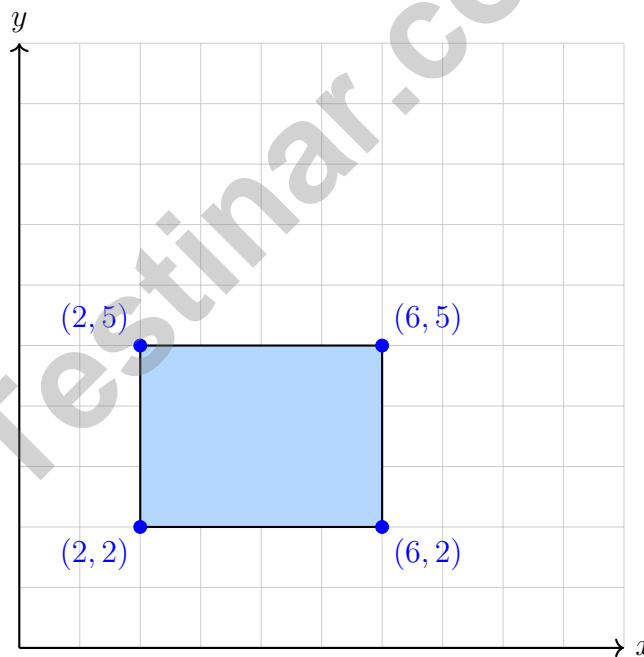
2) A jacket's original price is unknown. After a 25% discount, it costs \$75. What was the original price?

A. \$100

C. \$56.25

B. \$93.75

D. \$150



3)

What type of polygon is shown?

A. Square

C. Trapezoid

B. Pentagon

D. Rectangle



- 4) A printer produces pages at a constant rate. The graph passes through (4, 240) and the origin. What is the value of pages when minutes = 1?
- A. 40 pages per minute C. 60 pages per minute
 B. 50 pages per minute D. 80 pages per minute
- 5) A jar contains red and blue marbles. The ratio of red to blue is 3 : 5. If there are 18 red marbles, how many blue marbles are in the jar?

- 6) What is 0.43 as a percent?
- A. 4.3% C. 0.43%
 B. 43% D. 430%
- 7) A map has a scale of 1 inch = 10 miles. If two cities are 3.5 inches apart on the map, how far apart are they in reality?
- A. 30 miles C. 35 miles
 B. 31.5 miles D. 40 miles
- 8) A bottle contains 3 liters of juice. How many milliliters is this? (Use 1 liter = 1000 milliliters.)
- A. 300 mL C. 30 mL
 B. 3000 mL D. 0.3 mL

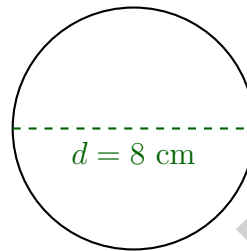


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1) Which expression matches “the product of 2 and the difference of a number r and 5”?

- A. $2r - 5$ C. $2 - r - 5$
 B. $(2 - r)(5)$ D. $2(r - 5)$

Circle



2)

The circle above has a diameter of 8 cm. Which expression finds its area?

- A. $\pi \times 8$ C. $\pi \times 4^2$
 B. $\pi \times 8^2$ D. $2 \times \pi \times 4$

3) A rectangular aquarium has length 10 inches, width 6 inches, and height 8 inches. Calculate its volume in cubic inches.

4) Error Analysis: A student claims, “The question ‘How old is my parent?’ is statistical because I need to ask my parent to find the answer.”

What is the error in this reasoning?

- A. Parents don't like to share their age. C. Your parent will not give an accurate answer.
 B. Statistical questions are always asked in school. D. Asking someone a question does not make it statistical.



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5) Data Set 1: mean=50, median=50, range=10. Data Set 2: mean=50, median=45, range=50. Which statement is true?

- A. Set 1 is symmetric; Set 2 is skewed right
- B. Both data sets have identical distributions
- C. Set 1 is symmetric; Set 2 is skewed left
- D. Both are skewed right with the same spread

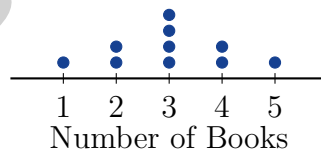
6) A student claims the median of 20, 5, 15, 10, 25 is 15 (the first middle number). Is this correct?

- A. Yes, the median is 15
- B. No, the correct median is 12.5
- C. No, must order first; median is 15
- D. No, the median is the sum, which is 75

7) Which measure of spread is most affected by outliers?

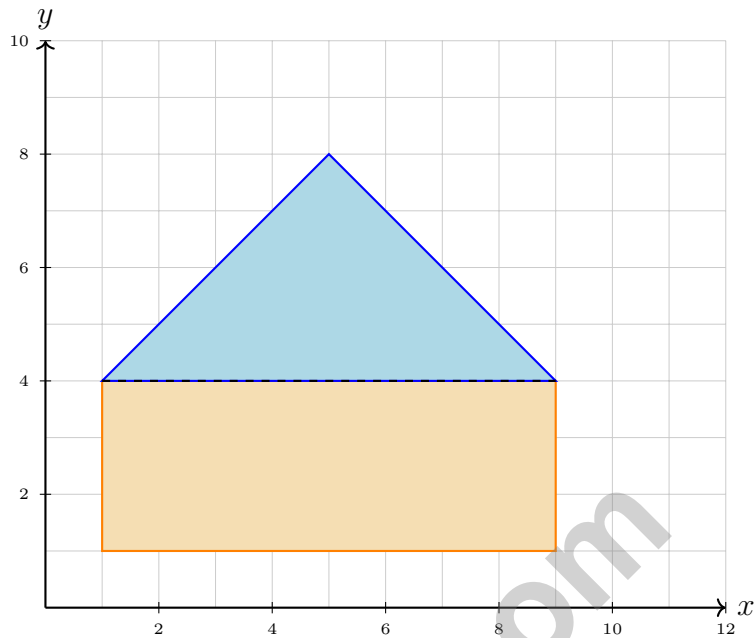
- A. Interquartile range
- B. Mean absolute deviation
- C. Range
- D. Median

8) The dot plot shows the number of books read by students last month. How many students read exactly 3 books?



- A. 2
- B. 3
- C. 4
- D. 5





4)

A composite figure has a rectangle on the bottom and a triangle on top. The rectangle has vertices $(1, 1)$, $(9, 1)$, $(9, 4)$, $(1, 4)$. The triangle sits above with vertices $(1, 4)$, $(9, 4)$, and $(5, 8)$. What is the total area?

- A. 32 square units
- B. 36 square units
- C. 40 square units
- D. 44 square units

5) On a number line, point A is at -3 and point B is at 4 . What is the distance between the two points?



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 three printed WVGSA tests with determined, steady, and ready for the next ridge habits.

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (M.6.13) Substitute $n = 8$: $15(8) + 6 = 120 + 6 = 126$ flowers.
- 2) **Choice A is correct.** (M.6.3) If 25% discount, customer pays 75% of original. So $0.75 \times \text{original} = 75$. Original = $75 \div 0.75 = 100$.
- 3) **Choice D is correct.** (M.6.23) The shape has four sides with opposite sides parallel and all angles at 90 degrees. It is a rectangle but not a square since length \neq width.
- 4) **Choice C is correct.** (M.6.3) The unit rate is $\frac{240 \text{ pages}}{4 \text{ minutes}} = 60$ pages per minute. When the x-value is 1 minute, the y-value is 60 pages.
- 5) **The correct answer is 30.** (M.6.3) Red marbles are the 3-part amount. Since $18 \div 3 = 6$, each part is worth 6 marbles, and blue marbles are 5 parts: $5 \times 6 = 30$.
- 6) **Choice B is correct.** (M.6.3) Multiply the decimal by 100: $0.43 \times 100 = 43\%$.
- 7) **Choice C is correct.** (M.6.3) Scale: 1 inch = 10 miles. Distance: $3.5 \times 10 = 35$ miles.
- 8) **Choice B is correct.** (M.6.3) Multiply: $3 \times 1000 = 3000$ mL.
- 9) **Choice D is correct.** (M.6.6) Using $I = P \times r \times t$: $\$250 = \$1000 \times 0.05 \times t \Rightarrow \$250 = \$50 \times t \Rightarrow t = 5$ years.
- 10) **Choice A is correct.** (M.6.20) The ratio p/h is constant: $12/1 = 24/2 = 36/3 = 48/4 = 12$. That means the unit rate is \$12 per hour, and the equation $p = 12h$ represents the proportional relationship.
- 11) **Choice D is correct.** (M.6.20) Food and utilities: $25\% + 20\% = 45\%$ of $\$2000 = 0.45 \times 2000 = \900 .
- 12) **Choice A is correct.** (M.6.3) Rectangle 1: $4 \times 5 = 20$ m and $2 \times 5 = 10$ m, so area = 200 sq m. Rectangle 2: $5 \times 4 = 20$ m and $2 \times 4 = 8$ m, so area = 160 sq m. Rectangle 1 is larger.
- 13) **Choice C is correct.** (M.6.4) When multiplying the number of slices by the fraction of each slice, you get the total fraction, not divide.
- 14) **Choice A is correct.** (M.6.5, M.6.6) $7,600 \div 25 = 304$. Verify: $25 \times 304 = 7,600$.
- 15) **Choice A is correct.** (M.6.6) Round: $8.9 \approx 9$ and $6.2 \approx 6$. Then $9 \times 6 = 54$. The exact answer is 55.18, which is closest to 54.
- 16) **Choice A is correct.** (M.6.7) This is a GCF problem. The GCF of 18 and 24 is 6. So she can make 6 bouquets, with 3 red and 4 white roses in each.
- 17) **Choice A is correct.** (M.6.7) Left ribbon: $3(5 + 7) = 36$. Right ribbon: $2(5 + 7) = 24$. Stack them openly: $3(5 + 7) + 2(5 + 7) = 60$. Option B subtracts instead of adds; option C skips half the rectangles; option D wrongly multiplies inside the parentheses.
- 18) **Choice D is correct.** (M.6.8) The distance between -4 and 4 is $4 - (-4) = 4 + 4 = 8$ units. These two numbers are 8 units apart on a number line.
- 19) **Choice D is correct.** (M.6.28) Error analysis: absolute value of any number (positive or negative) is always non-negative. $|12| = 12$, not -12 .
- 20) **Choice A is correct.** (M.6.28) Distance from zero is the absolute value. $|-4| = 4$, $|-1.5| = 1.5$, $|2.5| = 2.5$, $|3| = 3$. The greatest distance is 4.
- 21) **Choice A is correct.** (M.6.11) Point M is at $(-4, 3)$ and M' is at $(-4, -3)$. They have the same x -coordinate but opposite y -coordinates, indicating reflection across the x -axis.
- 22) **The correct answer is Girls to boys is $10 : 15 = 2 : 3$ (Choice A is correct). Boys to total is $15 : 25 = 3 : 5$ (Choice B is correct)..** (M.6.3) Choice A is correct because girls to boys is $10 : 15$, which simplifies to $2 : 3$. Choice B is correct because boys to total is $15 : 25$, which simplifies to $3 : 5$. The other choices either flip the order, swap which group is named first, or use the wrong total (10 girls out of 25 students is $2 : 5$, not $1 : 3$).
- 23) **Choice A is correct.** (M.6.10) -3 is to the right of -6 on the number line, so $-3 > -6$. All other inequalities are false.



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Hi, Math Athlete!

◇ 3 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

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

THIS BOOK INCLUDES:

- 3 Full-Length Printed Tests
 - 2 Online Practice Tests
-  Detailed Answer Explanations

MORE PRACTICE. GREATER RESULTS.

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

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Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

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



2 ONLINE TESTS

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



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