

# 3 Maine MTYA Grade 6 Math Practice Tests

*Full-Length Test Prep with Detailed Answer Explanations*

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QUICK SPRINT

# 3 Practice Tests

⚡ Fast. Focused. Effective. ⚡

*Ready to find out how prepared you are?*

*These **3 quick practice tests** are your fast track to confidence. Each one covers every Grade 6 topic — ratios, integers, expressions, geometry, and statistics.*

🕒 *See exactly where you stand*

🕒 *Zero in on what needs work*

🕒 *Build real confidence, fast!*

*Grab a pencil and let's sprint!*

“ Three tests is all it takes  
to know your strengths and  
sharpen your weak spots! ”

# *How to Use This Book*

*Three tests. Three steps. One powerful result.*

## *What's Inside*

- **3 Full-Length Practice Tests** — every Grade 6 math topic in each test: ratios, integers, expressions, geometry, statistics.
- **Complete Answer Key** — detailed explanations so you understand why, not just what.
- **Formula Reference Sheet** — key formulas at your fingertips.
- **Sprint Scorecard** — track your scores and see your growth!

## *Your 3-Step Sprint Plan*

### *Step 1: The Warm-Up (Test 1)*

Take Test 1 with **no timer**. This is your diagnostic sprint — find out what you already know and what needs work. Check every answer afterward and note the topics you missed.



### *Step 2: The Practice Run (Test 2)*

Set a timer for **60 minutes**. Focus on the tricky topics from Test 1. This is where you build speed and accuracy.



### *Step 3: Race Day (Test 3)*

Full test conditions: timed, quiet room, no peeking. Treat this like the real thing. Compare your score with Test 1 and see how far you've come!

 **Multiple Choice**

Choose the best answer from A–D. Not sure?  
Eliminate an obvious wrong answer first — it  
narrows your odds fast!

 **Open Response**

Show every step of your work. Even if your  
final answer isn't perfect, clear reasoning earns  
credit!



**Sprint Coach:** “Space your three tests a few days apart. Use the break to review what tripped you up. That’s the secret to a strong finish line!”



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# ⚡ 3 Power Moves for Test Day ⚡

Simple strategies that make a big difference

## ⚡ Power Move 1: Read Like a Detective

### 💡 Pro Tip

Watch out for words like  
"NOT", "LEAST", and  
"GREATEST" — they  
change everything!

1. Read the **whole** question before looking at answers.
2. **Circle** key numbers and important words.
3. **Underline** what the question is actually asking.

## ⚡ Power Move 2: Work Smart, Not Fast

1. **Answer easy questions first.** Skim through and grab every point you can.
2. **Mark the tough ones** with a star ★ and come back later.
3. **Show your work** — even on multiple choice. Writing steps prevents silly mistakes.
4. **Estimate first.** Does your answer make sense? If you got 5,000 for a question about percentages of 50, something's off!

## ⚡ Power Move 3: Check Before You're Done

Finished? Don't hand it in yet!

- |                                 |                                     |
|---------------------------------|-------------------------------------|
| ✓ Re-read any starred questions | ✓ Make sure no question is blank    |
| ✓ Check your decimal points     | ✓ Recheck fraction simplification   |
| ✓ Verify negative signs         | ✓ Confirm units in geometry answers |

 **Common Grade 6 Traps**

- ✗ Mixing up **ratios** and **rates**
- ✗ Forgetting integer **sign rules**
- ✗ Wrong **order of operations**
- ✗ Confusing **area** and **perimeter**
- ✗ Misreading **coordinate** axes
- ✗ Forgetting to **simplify**



“Three power moves might sound simple, but the students who use them consistently **always** outperform those who don't. Master these and you're already ahead!”



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# Gear Up!

Everything you need before you start each test



## Sharpened Pencils

*Two is better than one!*



## Good Eraser

*Clean corrections matter*



## Scratch Paper

*For working out steps*



## A Quiet Spot

*Focus is your superpower*



## A Timer

*Start using on Test 2*



## Confidence

*You've got this!*

### OK to Use

- ✓ Pencils and erasers
- ✓ Blank scratch paper
- ✓ The formula reference in this book
- ✓ A ruler (for geometry questions)

### Not Allowed

- ✗ Calculators
- ✗ Phones, tablets, or computers
- ✗ Notes, textbooks, or study guides
- ✗ Help from anyone else

### For Parents & Teachers

- Space the 3 tests **several days apart** so there's time to review mistakes in between.
- Let your child take Test 1 untimed to build comfort with the format.
- After each test, sit together with the Answer Key. Focus on **understanding the reasoning**, not just the score.
- If a topic keeps coming up as a weak spot, pair this book with our **Grade 6 Math Study Guide** for deeper review.

# Formula Reference Sheet

## Area Formulas

**Rectangle**  $A = l \times w$

**Parallelogram**  $A = b \times h$

**Triangle**  $A = \frac{1}{2} \times b \times h$

**Trapezoid**  $A = \frac{1}{2}(b_1 + b_2) \times h$

## Volume

**Rectangular**  $V = l \times w \times h$

**Prism**

## Surface Area

Find the area of each face, then add them all up.

**Rectangular Prism:**

$$SA = 2lw + 2lh + 2wh$$

## Order of Operations

**P** Parentheses first

**E** Exponents

**M/D** Multiply & Divide (left to right)

**A/S** Add & Subtract (left to right)

## Ratios & Percents

**Ratio:**  $a : b$  or  $\frac{a}{b}$

**Unit rate:** amount per 1 unit

**Percent:** a ratio out of 100

$$\text{Part} = \text{Percent} \times \text{Whole}$$

## Integers & Absolute Value

**Integers:**

$\dots, -3, -2, -1, 0, 1, 2, 3, \dots$

$$|-5| = 5 \quad |5| = 5$$

**Absolute value** = distance from 0

## Expressions & Equations

**Exponent:**  $3^4 = 3 \times 3 \times 3 \times 3 = 81$

**Variable:** a letter that stands for a number

**Equation:** two expressions joined by =

**Inequality:** uses  $<$ ,  $>$ ,  $\leq$ ,  $\geq$

## Coordinate Plane

**Ordered pair:**  $(x, y)$

**x-axis:** horizontal    **y-axis:** vertical

**Origin:**  $(0, 0)$

**Four quadrants** (I, II, III, IV)

## Statistics

**Mean:** sum of values  $\div$  count

**Median:** middle value (sorted)

**Range:** max  $-$  min

# My Sprint Scorecard

Track your speed and accuracy across all 3 tests!

Name: \_\_\_\_\_

|  Test |  Date |  Score |  Feeling |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|  1    | _____                                                                                  | ____ / ____                                                                              |          |
|  2    | _____                                                                                  | ____ / ____                                                                              |          |
|  3  | _____                                                                                  | ____ / ____                                                                              |        |

## My Sprint Review

*My strongest topic:*

\_\_\_\_\_

*The topic I need to practice most:*

\_\_\_\_\_

*How my score changed from Test 1 to Test 3:*

\_\_\_\_\_

*My goal for the real test:*

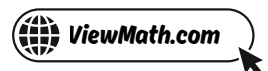
\_\_\_\_\_

*Three sprints, three chances to improve. Every point forward is a win!*

PREVIEW



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## ★ Table of Contents ★

*Here's what we'll explore together!*

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*Let's learn and have fun!*

PREVIEW



PRACTICE TEST

1

## Practice Test 1

 30 Questions

### Before You Start

- ✓ *Read each question carefully before choosing your answer.*
- ✓ *Show your work on scratch paper when you need to.*
- ✓ *Skip hard questions and come back to them later.*
- ✓ *Check your answers when you're done.*
- ✓ *Take your time — there's no rush!*

★ *You've Got This!* ★

*Do your best and show what you know!*



1. Write a sentence using the phrase "for every" to describe the ratio 9 : 2.

Your Answer:

2. A 20-ounce bottle of shampoo costs \$5.00 and a 32-ounce bottle costs \$7.04. Which bottle has the lower unit price?

Your Answer:

3. A bus uses 7 gallons of gas for every 42 miles. How many gallons does it need for 120 miles?

Your Answer:

4. A ratio graph passes through (4, 10) and the origin. List two other points on this line.

Your Answer:

5. What is 15% of 60?

(A) 9

(B) 15

(C) 45

(D) 6

6. Convert 156 inches to feet.

(A) 11

(B) 12

(C) 13

(D) 14



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7. A student solved  $\frac{3}{5} \div \frac{2}{9}$  and got  $\frac{6}{45}$ . What mistake did the student make?

- (A) The student forgot to simplify the answer      (B) The student multiplied without using the reciprocal
- (C) The student flipped the first fraction instead of the second      (D) The student added the fractions

8. Which is the best estimate for  $3,612 \div 6$ ?

- (A) 60      (B) 602
- (C) 600      (D) 6,000

9. On a number line, is  $-6$  to the left or to the right of  $-2$ ? Which number is less?

Your Answer:

10. Order the following from **least** to **greatest** absolute value:  $-2$ ,  $7$ ,  $-5$ ,  $1$ .

- (A)  $-5$ ,  $-2$ ,  $1$ ,  $7$       (B)  $1$ ,  $-2$ ,  $-5$ ,  $7$
- (C)  $7$ ,  $-5$ ,  $-2$ ,  $1$       (D)  $-2$ ,  $1$ ,  $7$ ,  $-5$

11. Pedro says  $4 + 6 \times 3 = 30$ . Maya says the answer is  $22$ . Who is correct?

- (A) Pedro      (B) Maya
- (C) Both are correct      (D) Neither is correct



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12. Which expression represents "6 more than half of a number  $n$ "?

(A)  $6 + 2n$

(B)  $\frac{n + 6}{2}$

(C)  $\frac{n}{2} + 6$

(D)  $n + 3$

13. Which of the following is a factor of the term  $9x$ ?

(A)  $9 + x$

(B)  $9x$

(C)  $x$

(D)  $9 - x$

14. Which value of  $x$  makes  $x^2 + 1 = 26$ ?

(A)  $x = 4$

(B)  $x = 5$

(C)  $x = 6$

(D)  $x = 12$

15. Which pair of expressions are NOT equivalent?

(A)  $3x + 5x$  and  $8x$

(B)  $2(a + 4)$  and  $2a + 8$

(C)  $6y - 2y$  and  $4y$

(D)  $3x + 2x$  and  $5x^2$

16. In the formula  $d = 60t$ , what could  $d$  and  $t$  represent?

(A)  $d = \text{days}$ ,  $t = \text{hours}$

(B)  $d = \text{distance in miles}$ ,  $t = \text{time in hours}$

(C)  $d = \text{dollars}$ ,  $t = \text{tax rate}$

(D)  $d = \text{degrees}$ ,  $t = \text{temperature}$



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17. Solve:  $\frac{m}{4} = 7$

(A)  $m = 3$

(B)  $m = 11$

(C)  $m = 28$

(D)  $m = 47$

18. How many solutions does the inequality  $x < 10$  have?

(A) 9

(B) 10

(C) 0

(D) Infinitely many

19. When graphing  $x > 4$  on a number line, what kind of circle goes at 4?

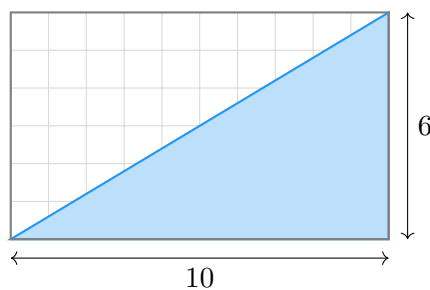
(A) Closed circle (filled in)

(B) Open circle (not filled in)

(C) No circle — just an arrow

(D) A square

20. A triangle is formed by cutting a  $10 \times 6$  rectangle along its diagonal, as shown below. What is the area of the shaded triangle?



Your Answer:



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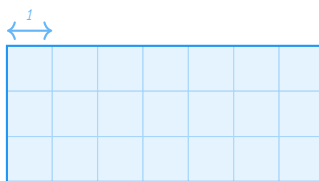


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21. A trapezoid has bases 3 cm and 7 cm and height 10 cm. What is the area?



(A)  $70 \text{ cm}^2$

(B)  $21 \text{ cm}^2$

(C)  $100 \text{ cm}^2$

(D)  $50 \text{ cm}^2$

22. A box is 8 in long, 6 in wide, and 3 in tall. What is its volume?

(A)  $17 \text{ in}^3$

(B)  $144 \text{ in}^3$

(C)  $48 \text{ in}^3$

(D)  $180 \text{ in}^3$

23. Lee says the distance between  $(-3, 5)$  and  $(4, 5)$  is 1 unit. What mistake did Lee make?

(A) He subtracted incorrectly:  $4 - 3 = 1$  instead of  $4 - (-3) = 7$ .

(B) He added the  $x$ -coordinates instead of subtracting.

(C) He used the  $y$ -coordinates instead of the  $x$ -coordinates.

(D) He divided by 2.

24. A rectangle on the coordinate plane has an area of 56 square units. Its length is 8 units. What is the width?

(A) 6 units

(B) 7 units

(C) 8 units

(D) 48 units



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25. Which of the following is a statistical question?

- (A) What year was the school built?      (B) What is the name of our principal?
- (C) How many minutes does each student exercise per day?      (D) How many continents are there?

26. Data: 30, 32, 33, 33, 34, 35, 36. What is the shape of this data?

- (A) Skewed to the left      (B) Skewed to the right
- (C) Roughly symmetric      (D) Has a large gap in the middle

27. The mean of five numbers is 20. What is the sum of the five numbers?

- (A) 4      (B) 25
- (C) 80      (D) 100

28. A dot plot of daily steps shows: 3000 (1 dot), 4000 (2 dots), 5000 (6 dots), 6000 (4 dots), 7000 (2 dots). What is the most common number of steps?

Your Answer:

29. Data (in order): 3, 5, 7, 9, 11, 13, 15. What is the median?

- (A) 7      (B) 9
- (C) 11      (D) 13



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30. Two data sets overlap significantly on a dot plot. What does this overlap suggest?

- (A) The two groups are clearly different.
- (B) The two groups are similar and hard to distinguish.
- (C) One group has outliers.
- (D) The data is skewed.



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## ★ *End of Practice Test 1* ★

*Great job finishing the test!*

### *My Score*

*I got \_\_\_\_\_ out of 30 questions right.*

*Check your answers in the **Answer Key** at the back of the book.*

 *Review any questions you missed. That's how we learn!*

THANK YOU

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