

3 Minnesota MCA Grade 6 Math Practice Tests

Full-Length Test Prep with Detailed Answer Explanations

Dr. A. Nazari

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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!"



Find more at
[ViewMath.com/Grade6](https://www.viewmath.com/Grade6)



⚡ 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!”

PREVIEW



Find more at
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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

$Part = Percent \times Whole$

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!

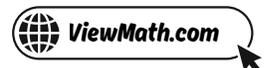
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★ Table of Contents ★

Here's what we'll explore together!

★ Practice Test 1	2
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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 bus uses 7 gallons of gas for every 42 miles. How many gallons does it need for 120 miles?

Your Answer:

3. A graph shows points (2, 8) and (5, 20). Verify that these represent the same ratio.

Your Answer:

4. Write $\frac{7}{8}$ as a percent and as a decimal.

Your Answer:

5. Which of the following is a **want** rather than a **need**?

(A) Warm clothing in winter

(B) Drinking water

(C) A streaming music subscription

(D) A visit to the doctor

6. Look at the two tables below.

Table 1: x : 1, 2, 4 y : 3, 6, 12 Table 2: x : 1, 2, 4 y : 3, 7, 15

Which statement is correct?

(A) Both tables are proportional.

(B) Only Table 1 is proportional.

(C) Only Table 2 is proportional.

(D) Neither table is proportional.



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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. What is $10.2 - 3.45$?

- (A) 7.25 (B) 6.75
- (C) 7.75 (D) 6.85

9. If $a + b = 0$ and $a = 8$, what is the value of b ?

Your Answer:

10. A point has coordinates $(0, 7)$. Which statement is true about this point?

- (A) It is in Quadrant I (B) It is on the x -axis
- (C) It is at the origin (D) It is on the y -axis

11. Which expression represents "divide 20 by a number p "?

- (A) $20 + p$ (B) $p \div 20$
- (C) $20p$ (D) $20 \div p$



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12. Which statement is true about the expression $x + 5$?

- (A) The coefficient of x is 0
(B) There are 3 terms
(C) 5 is the coefficient of x
(D) The coefficient of x is 1

13. Evaluate $20 - 3n$ when $n = 4$.

- (A) 8
(B) 12
(C) 17
(D) 32

14. Simplify: $6 + 2(x + 4)$

- (A) $2x + 10$
(B) $8x + 4$
(C) $2x + 14$
(D) $16x$

15. An elevator starts at floor f and goes up 7 floors. Which expression gives the new floor?

- (A) $f - 7$
(B) $7f$
(C) $f + 7$
(D) $f \div 7$

16. Which of the following values is NOT a solution to $y \geq 3$?

- (A) $y = 3$
(B) $y = 4$
(C) $y = 100$
(D) $y = 2.5$

17. Which inequality matches a graph with an open circle at -2 and shading to the left?

- (A) $x > -2$
(B) $x < -2$
(C) $x \geq -2$
(D) $x \leq -2$



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18. A taxi costs \$3 plus \$2 per mile. Which equation gives the fare f for m miles?

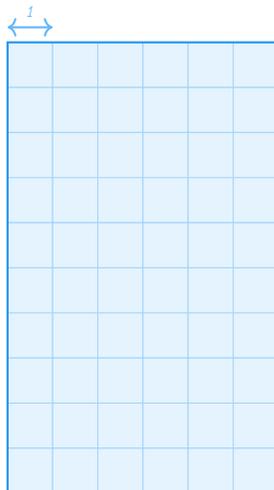
(A) $f = 2m$

(B) $f = 3m + 2$

(C) $f = 5m$

(D) $f = 2m + 3$

19. What is the area of a triangle with base 10 cm and height 6 cm?



(A) 60 cm^2

(B) 30 cm^2

(C) 16 cm^2

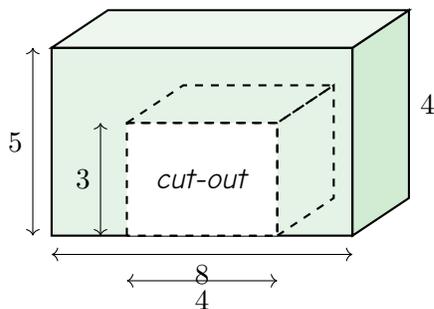
(D) 32 cm^2



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20. The diagram shows a rectangular box with a smaller rectangular box cut out of it. What is the remaining volume?



Both the outer box and the cut-out have a depth of 4 units.

Your Answer:

21. A square has vertices $(-2, -2)$, $(4, -2)$, $(4, 4)$, and $(-2, 4)$. What is the area?

- (A) 24 square units (B) 36 square units
(C) 12 square units (D) 16 square units

22. What is a net?

- (A) A 3D shape made of cubes (B) A flat pattern that folds into a 3D shape
(C) The volume of a rectangular prism (D) A grid used to measure area

23. Which formula gives the area of a circle?

- (A) $A = 2\pi r$ (B) $A = \pi d$
(C) $A = \pi r^2$ (D) $A = 2\pi r^2$



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24. Lena changes a non-statistical question into a statistical one. The original was "How many ounces are in a cup?" Which revision makes it statistical?

- (A) How many ounces are in 3 cups? (B) How many cups of water does each student drink per day?
- (C) How many ounces are in a gallon? (D) What is 8×2 ?

25. Which measure of spread is most affected by outliers?

- (A) IQR (B) MAD
- (C) Range (D) Median

26. Which display is best for showing how 500 test scores are distributed across intervals?

- (A) Dot plot (B) Frequency table with individual values
- (C) Histogram (D) Circle graph

27. Data: 20, 25, 30, 35, 40, 45, 50, 55, 60. What is Q_3 ?

- (A) 40 (B) 45
- (C) 50 (D) 52.5

28. Data: 4, 8, 10, 12, 14, 16, 100. Find the mean and median. Which measure better represents a typical value? Why?

Your Answer:



29. A bag contains 3 red marbles, 5 blue marbles, and 2 green marbles. What is the probability of randomly drawing a red marble?

(A) $\frac{3}{7}$

(B) $\frac{3}{10}$

(C) $\frac{1}{3}$

(D) $\frac{5}{10}$

30. A circle graph shows favorite colors: Red 30%, Blue 25%, Green 20%, Yellow 15%, Purple 10%. What percent of people chose either Red or Blue?

(A) 25%

(B) 30%

(C) 45%

(D) 55%



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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

Enjoyed This Preview?

Get the Full Book!

This preview shows just a small sample of what's inside.

The complete book includes:

- ✓ *All chapters and topics*
- ✓ *Hundreds of practice problems*
- ✓ *Complete answer key with explanations*
- ✓ *Colorful visuals and step-by-step examples*
- ✓ *Reference sheets and progress trackers*

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