

3 Nebraska NSCAS 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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[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!”

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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!

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★ *Table of Contents* ★

Here's what we'll explore together!

★ <i>Practice Test 1</i>	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 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. Boys and girls at a camp are in a $3 : 5$ ratio. There are 48 campers total. How many girls are there?

(A) 18

(B) 24

(C) 30

(D) 20

6. Convert 156 inches to feet.

(A) 11

(B) 12

(C) 13

(D) 14



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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. A book costs \$7 more than a magazine. The book costs \$19. Which equation represents this situation, with m as the magazine price?

(A) $m - 7 = 19$

(B) $7m = 19$

(C) $m + 7 = 19$

(D) $m + 19 = 7$

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?

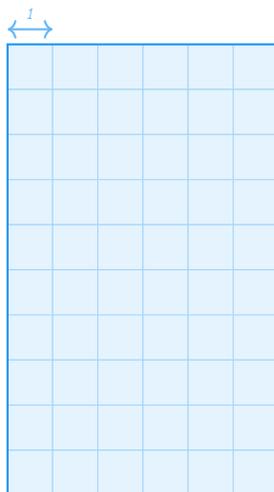
(A) $f = 2m$

(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

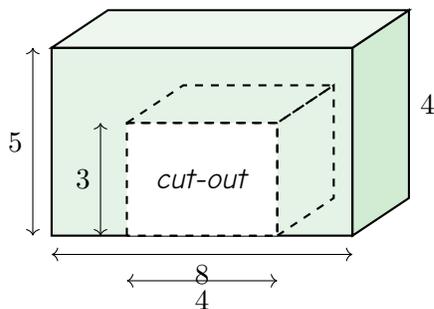
(D) 32 cm^2



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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. To find the length of a horizontal side on the coordinate plane, you subtract the:

- (A) y -coordinates and take the absolute value (B) x -coordinates and take the absolute value
(C) x -coordinate from the y -coordinate (D) coordinates and divide by 2

22. A rectangle has vertices $(-3, 2)$, $(5, 2)$, $(5, -4)$, and $(-3, -4)$. What is the area?

- (A) 24 square units (B) 36 square units
(C) 48 square units (D) 28 square units

23. Mia paints all sides of a wooden block that is 3 ft by 2 ft by 4 ft. She then paints an identical block. How much total area does she paint?

- (A) 52 ft^2 (B) 104 ft^2
(C) 48 ft^2 (D) 26 ft^2



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24. What is the area of a circle with radius 9 m? Use $\pi \approx 3.14$.

- (A) 28.26 m^2 (B) 56.52 m^2
(C) 254.34 m^2 (D) 508.68 m^2

25. Test scores: 68, 70, 72, 73, 74, 75, 76, 98. Where is the center of this data?

- (A) Around 68–70 (B) Around 73–75
(C) Around 83 (D) Around 98

26. Data: 14, 17, 19, 23, 27. What is the median?

- (A) 17 (B) 19
(C) 20 (D) 23

27. Data: 20, 22, 24, 26, 28. The mean is 24. What is the MAD?

- (A) 2 (B) 2.4
(C) 4 (D) 8

28. A box plot has: $\min = 60$, $Q1 = 70$, $\text{median} = 75$, $Q3 = 85$, $\max = 100$. What percent of data falls between 70 and 85?

Your Answer:

29. Data: 5, 5, 6, 6, 6, 7, 7, 50. Which measure of center better represents a typical value?

- (A) Mean, because it uses all values. (B) Median, because the outlier 50 pulls the mean too high.
(C) Range, because it measures spread. (D) Mode, because 6 appears the most.



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30. The probability that it will rain tomorrow is 0.3. What is the probability that it will **not** rain tomorrow?

(A) 0.3

(B) 0.7

(C) 0.03

(D) 1.3

PREVIEW



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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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