

# 3 South Dakota SBA 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
- ✔ Check your decimal points
- ✔ Verify negative signs
- ✔ Make sure no question is blank
- ✔ Recheck fraction simplification
- ✔ 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

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## 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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*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)  $m = 47$

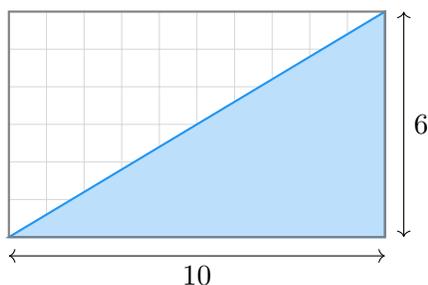
18. How many solutions does the inequality  $x < 10$  have?

- (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:



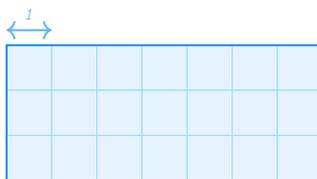
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21. A trapezoid has bases 3 cm and 7 cm and height 10 cm. What is the area?



- (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



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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- ✓ *Hundreds of practice problems*
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