

3 Texas STAAR 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!"



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



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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!

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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 pizza shop sells a small pizza (8 slices) for \$8.80 and a large (12 slices) for \$11.40. You want the cheapest price per slice. Which size should you buy? How much cheaper per slice is it?

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

Your Answer:

5. A recipe needs 2.5 liters of water. How many milliliters is that?

(A) 25

(B) 250

(C) 2,500

(D) 25,000

6. Emma owes \$500 on a credit card with 18% annual interest. She makes no payments for one year. What is her new balance?

(A) \$518

(B) \$540

(C) \$590

(D) \$680



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11. What is $(-15) + 8$?

(A) -23

(B) 23

(C) 7

(D) -7

12. What is $(-2) \times 5 \times (-3) \div (-6)$?

(A) 5

(B) -5

(C) -30

(D) 30

13. Evaluate: $8 + 12 \div 4$

(A) 5

(B) 11

(C) 14

(D) 20

14. A baker makes c cupcakes. She packs them equally into 6 boxes. Which expression shows the number in each box?

(A) $c - 6$

(B) $6c$

(C) $c \div 6$

(D) $c + 6$

15. In the expression $2x + 5y + 10$, which of the following is true?

(A) The coefficient of x is 5

(B) There are 2 terms

(C) The constant is 10

(D) The coefficient of y is 10



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

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?

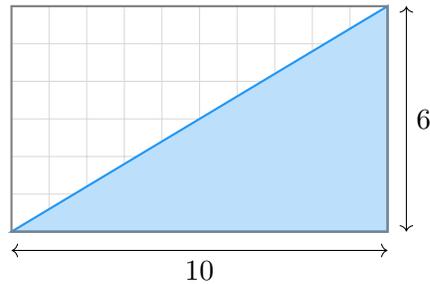
- (A) Closed circle (filled in) (B) Open circle (not filled in)
(C) No circle — just an arrow (D) A square



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



Your Answer:

21. A fish tank is 20 in long, 10 in wide, and 12 in tall. What is the volume of the tank?

- (A) 42 in^3 (B) 240 in^3
(C) $1,200 \text{ in}^3$ (D) $2,400 \text{ in}^3$

22. Two points share the same y -coordinate. They form a:

- (A) Vertical segment (B) Diagonal segment
(C) Horizontal segment (D) There is not enough information to tell.

23. A rectangle has vertices $(-5, -1)$, $(3, -1)$, $(3, 4)$, and $(-5, 4)$. Emma says the area is 30 square units, and Jake says it is 40 square units. Who is correct?

- (A) Emma (B) Jake
(C) Neither — the area is 35 square units. (D) Neither — the area is 45 square units.



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24. A rectangular prism has length 8 cm, width 5 cm, and height 2 cm. Leo says the surface area is 80 cm^2 . What did Leo calculate instead?

- (A) The volume
(B) The perimeter
(C) Half the surface area
(D) The area of just one face

25. Data: 2, 3, 4, 5, 100. The mean is 22.8. Why is the mean much higher than most of the values?

- (A) There are only 5 values.
(B) The median is too low.
(C) The outlier 100 pulls the mean up.
(D) The values are all positive.

26. What does a small IQR tell you about a data set?

- (A) The data values are far apart.
(B) The middle 50% of the data is spread over a wide range.
(C) The middle 50% of the data is clustered close together.
(D) The data has many outliers.

27. A data set has two values that each appear 4 times, and no other value appears more than 3 times. How many modes does this data set have?

- (A) 0
(B) 1
(C) 2
(D) 4

28. Team A quiz scores: 60, 65, 70, 75, 80, 85, 90. Team B quiz scores: 72, 74, 75, 76, 76, 78, 80. Find the IQR for each team. Which team is more consistent?

Your Answer:



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29. Which statement is true about using the median and IQR to summarize data?

- (A) They are strongly affected by outliers. (B) They ignore most of the data.
(C) They resist the effect of outliers better than the mean and range. (D) They can only be used with symmetric data.

30. What is the median of the data in this stem-and-leaf plot?

Stem	Leaves
1	3 7
2	2 4 6
3	0 5 8
4	1

Key: 1 | 3 means 13

- (A) 24 (B) 26
(C) 30 (D) 28



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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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