

5 Full-Length Texas STAAR Grade 6 Math Practice Tests

Extra Practice for Test Day Success

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EXPLORER'S JOURNEY

5 Practice Tests to Map Your Math Skills!



Welcome, Math Explorer! 

This book is your map through **5 full practice tests**, each one a new trail through every Grade 6 topic — from ratios and integers to geometry and statistics.

Discover what you already know!

Explore the topics that need more work!

Chart your path to test-day confidence!

Every explorer needs a plan. Let's start mapping yours!



“ Five tests means five chances to discover something new about your math skills. Enjoy the journey! ”

Your Exploration Guide

Five trails to discover, five weeks to grow

What's Inside This Book

- **5 Full-Length Practice Tests** — each covers all Grade 6 topics: ratios, integers, expressions, geometry, and statistics.
- **Detailed Answer Explanations** — understand the why behind every answer, not just the what.
- **Formula Reference Sheet** — your trusty map of key formulas.
- **Explorer's Log** — chart your scores and track discoveries!

Your 5-Week Exploration Schedule

One test per week keeps the journey manageable:

Trail 1: Take Test 1 untimed. Explore the terrain and note what you find.

Trail 2: Review weak spots. Take Test 2 with a gentle timer (75 min).

Trail 3: Test 3 timed (60 min). Compare with Test 1 — see the progress!

Trail 4: Deep-focus on remaining tricky topics. Test 4 timed.

Trail 5: Full test conditions. Your final exploration — celebrate the finish!

Multiple Choice

Choose the **best answer** from A, B, C, or D.

 **Explorer's tip:** Read every option before deciding. The correct answer sometimes hides in the last choice!

Open Response

Show your work and write your answer clearly.

 **Explorer's tip:** Think of your solution as a trail map — show every step so someone else could follow your path!

“ After Each Trail ”

Check the Answer Key and read every explanation — especially for questions you missed. Write the tricky topics in your Explorer’s Log. If you need a deeper dive, grab our **Grade 6 Math Study Guide!**

PREVIEW



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The Explorer's Toolkit

Essential strategies for navigating every test

Pack Your Gear (Before the Test)

- ✓ Clear your workspace — remove distractions.
- ✓ Gather pencils, eraser, scratch paper.
- ✓ Take 3 deep breaths.
- ✓ Set your goal: "I'll read carefully and show my work."

Navigate the Trail (During the Test)

1. **Scout first.** Flip through the test to see what's ahead.
2. **Start with what you know.** Answer confident questions first.
3. **Mark the unknowns.** Put a  by tricky ones and return later.
4. **Show every step.** Your solution path matters as much as the answer.
5. **Check the map.** Does your answer make sense in context?

Navigation Tips by Topic

- **Ratios:** Set up a proportion and cross-multiply
- **Integers:** Use a number line to check signs
- **Expressions:** Follow PEMDAS step by step
- **Equations:** Inverse operations to isolate x
- **Geometry:** Draw and label diagrams
- **Statistics:** Order data before finding median

Trail Hazards

- Confusing ratio 3:5 with $\frac{3}{5}$
- Wrong signs when adding integers
- Forgetting exponents in PEMDAS
- Mixing up area formulas
- Reading the wrong axis
- Finding mean instead of **median**



Explorer's Debrief: After each test, go through the answer key carefully. For every wrong answer, ask: did I make a careless mistake, or do I need to study this topic more? Write your findings in the Explorer's Log. That's how real explorers improve — they learn from every expedition!

Pack Your Explorer's Kit

Gather everything you need before each expedition

Your Expedition Gear

- ✓ **Two sharpened pencils** *so you never have to stop mid-trail*
- ✓ **A good eraser** *every explorer course-corrects!*
- ✓ **Scratch paper** *for drawing diagrams and working out steps*
- ✓ **A quiet workspace** *your base camp for concentration*
- ✓ **A timer** *start using around Trail 3*
- ✓ **Curiosity and confidence!** *the explorer's greatest tools*

Allowed on Real Tests

- ✓ Pencil and eraser
- ✓ Scratch paper (provided)
- ✓ Ruler (if specified)
- ✓ Reference sheets (in this book)

Not Allowed

- ✗ Calculator
- ✗ Phone or tablet
- ✗ Textbooks or notes
- ✗ Help from others

For Parents & Teachers

- Spread the 5 tests across **5 weeks** for best results. This gives time to review and study between expeditions.
- Test 1 should be untimed to establish a baseline.
- After each test, review the Answer Key together. Focus on **reasoning**, not just scores.
- Pair this book with our **Grade 6 Math Study Guide** for topics that need extra attention.
- Celebrate progress — every improvement, no matter how small, is a discovery worth noting!

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 Explorer's Log

Record each expedition's results and discoveries

Explorer's Name: _____

Trail	 Date	 Score	 Confidence
1	_____	____ / ____	
2	_____	____ / ____	
3	_____	____ / ____	
4	_____	____ / ____	
5	_____	____ / ____	

PREVIEW

 *My Discovery Journal*

Topics I explored with confidence:

Uncharted territory (topics I need to study more):

My biggest improvement from Trail 1 → Trail 5:

One new strategy I discovered along the way:

One strategy that helped me the most:



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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!* ★

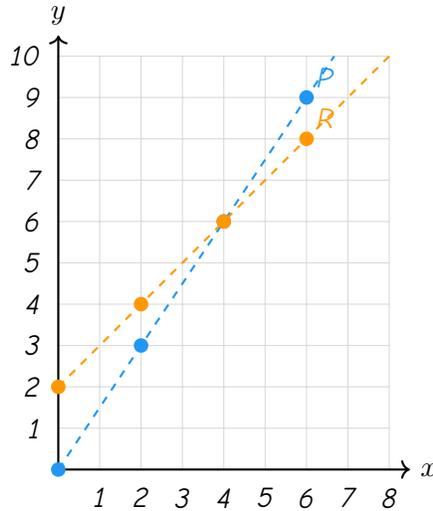
Do your best and show what you know!



6. A family has a monthly income of \$5,000. They spend 35% on housing, 15% on food, 10% on transportation, and save 20%. How much money is left for all other expenses?

Your Answer:

7. The coordinate plane below shows points from two different relationships.



Which statement is true?

- (A) Both P and R are proportional.
 (B) P is non-proportional; R is proportional.
- (C) P is proportional; R is non-proportional.
 (D) Neither P nor R is proportional.

8. Alex saves \$150 per month. After saving for 8 months, he deposits all his savings into an account earning 6% simple interest per year. How much total money (savings + interest) will he have after 1 year in the account?

Your Answer:



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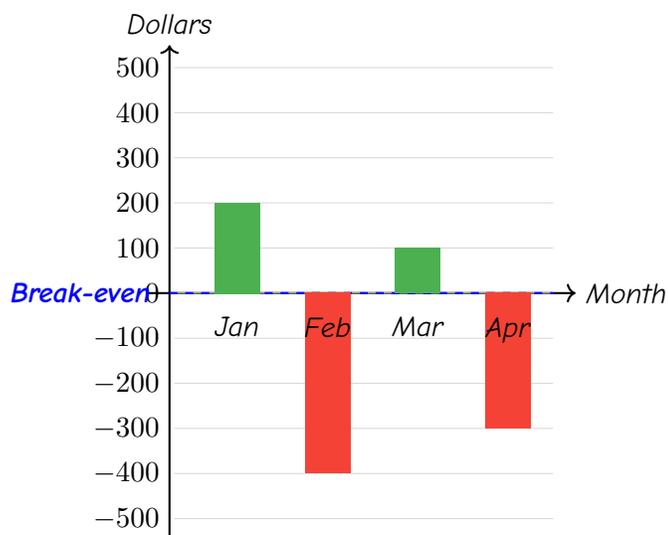
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9. Which of the following statements about zero is true?

- (A) Zero is a positive number. (B) Zero is a negative number.
(C) Zero is neither positive nor negative. (D) Zero is both positive and negative.

10. The bar chart below shows a bakery's profit or loss for four months.



Which month had the biggest change from break-even?

- (A) January (+\$200) (B) February (-\$400)
(C) March (+\$100) (D) April (-\$300)

11. What is $3 - 8$?

- (A) 5 (B) 11
(C) -5 (D) -11



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12. Study the pattern table below.

<i>Expression</i>	<i>Product</i>
$(-3) \times 3$	-9
$(-3) \times 2$	-6
$(-3) \times 1$	-3
$(-3) \times 0$	0
$(-3) \times (-1)$?
$(-3) \times (-2)$?
$(-3) \times (-3)$?

Part A: Complete the three missing products by continuing the pattern.

Part B: Explain the pattern and how it shows that a negative times a negative is positive.

Your Answer:

13. A student evaluated $2 + 5 \times 3^2$ step by step. Look at the work shown below. In which step did the student make a mistake?

Step 1: $2 + 5 \times 3^2$

Step 2: 7×3^2

Step 3: 7×9

Step 4: 63

(A) Step 1

(B) Step 2

(C) Step 3

(D) Step 4



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14. Which expression represents "triple a number b , then subtract 4"?

- (A) $3(b - 4)$ (B) $3b - 4$
(C) $b - 12$ (D) $4 - 3b$

15. Which statement about the expression $12 + 4w - 3$ is true?

- (A) 12 is a coefficient (B) w is a constant
(C) 4 is the coefficient of w (D) There are 4 terms

16. A school has s students and wants to form teams of 6. Which expression gives the number of teams?

- (A) $6s$ (B) $s + 6$
(C) $s \div 6$ (D) $s - 6$

17. Solve: $m + 17 = 30$

Your Answer:

18. The table below matches phrases to inequality symbols. Which row has an error?

Row	Phrase	Symbol
1	At least	\geq
2	No more than	\leq
3	Fewer than	$<$
4	At most	$<$

- (A) Row 1 (B) Row 2
(C) Row 3 (D) Row 4



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19. Pick two values that ARE solutions to $x > -1$ and one value that is NOT.

Your Answer:

20. 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

21. Which formula gives the volume of a rectangular prism?

(A) $V = l + w + h$

(B) $V = 2lw + 2lh + 2wh$

(C) $V = l \times w \times h$

(D) $V = l \times w$

22. A parallelogram has vertices $(1, 1)$, $(5, 1)$, $(6, 4)$, and $(2, 4)$. What is the length of the bottom side?

(A) 3 units

(B) 4 units

(C) 5 units

(D) 6 units



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23. A rectangle has vertices $(2, -1)$, $(2, 5)$, $(9, 5)$, and $(9, -1)$. What is the area?

Your Answer:

24. 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

25. The mean of four numbers is 30. Three of the numbers are 25, 28, and 35. What is the fourth number?

Your Answer:

26. Data: 100, 105, 110, 115, 120, 125, 130. Find the IQR.

Your Answer:

27. A histogram shows test scores: 60–69 (2), 70–79 (5), 80–89 (10), 90–100 (8). What percent of students scored 80 or above?

- (A) 40%
(B) 50%
(C) 72%
(D) 80%

28. A box plot of homework scores has $\min = 42$, $Q_1 = 68$, $\text{median} = 78$, $Q_3 = 88$, $\max = 100$. About what fraction of students scored above 78?

- (A) One-quarter
(B) One-half
(C) Three-quarters
(D) All of them



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29. City X daily temperatures ($^{\circ}\text{F}$): 68, 70, 72, 74, 76, 78, 80. City Y: 50, 60, 72, 74, 76, 85, 95. Find the median, range, and IQR for each city. Which city has more consistent temperatures?

Your Answer:

30. The stem-and-leaf plot below shows the number of points scored by a basketball player in each game this season.

Stem	Leaves
0	8 9
1	2 3 5 7 8
2	0 1 4 6
3	2 5

Key: 1 | 2 means 12 points

In how many games did the player score 20 or more points?

- (A) 4 (B) 5
 (C) 6 (D) 7



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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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