

# 5 Full-Length Oklahoma OSTP 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

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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 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:*

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*Uncharted territory (topics I need to study more):*

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*My biggest improvement from Trail 1 → Trail 5:*

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*One new strategy I discovered along the way:*

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*One strategy that helped me the most:*

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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. Sam reads 45 pages in 3 hours. What two units make this a rate?

- (A) Pages and books                      (B) Pages and hours  
(C) Hours and minutes                  (D) Books and hours

2. The ratio of lemonade mix to water is 3 : 5. Which row does **not** belong in the ratio table?

- (A) 6 mix, 10 water                      (B) 9 mix, 15 water  
(C) 12 mix, 18 water                    (D) 15 mix, 25 water

3. The points (2, 5) and (4, 10) are on a graph. What is the ratio  $x : y$ ?

- (A) 5 : 2                                      (B) 1 : 2  
(C) 2 : 5                                      (D) 4 : 5

4. What is 5% of 240?

- (A) 48                                        (B) 24  
(C) 12                                        (D) 120

5. A fish tank holds 6 gallons. How many cups is that? (1 gallon = 16 cups)

- (A) 72                                        (B) 80  
(C) 96                                        (D) 64

6. On a map, 2 cm represents 15 km. If two landmarks are 8 cm apart on the map, what is the actual distance between them?

Your Answer:



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7. A student solved the problem below using "Keep, Change, Flip." Look at the student's work.

**Problem:**  $\frac{4}{5} \div \frac{2}{3}$

**Step 1:** Keep  $\frac{4}{5}$  Change  $\div$  to  $\times$

**Step 2:** Flip  $\frac{4}{5}$  to get  $\frac{5}{4}$

**Step 3:**  $\frac{5}{4} \times \frac{2}{3} = \frac{10}{12} = \frac{5}{6}$

What error did the student make?

- (A) The student forgot to change  $\div$  to  $\times$       (B) The student made a multiplication error in Step 3
- (C) The student forgot to simplify      (D) The student flipped the wrong fraction

8. Compute  $9,072 \div 42$ .

Your Answer:

9. What is  $|-8|$ ?

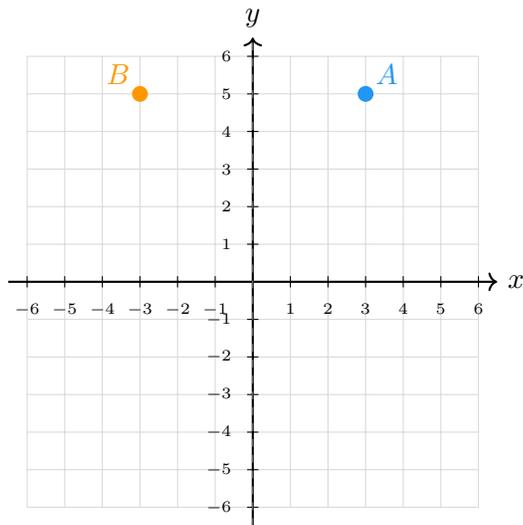
- (A)  $-8$       (B)  $0$
- (C)  $8$       (D)  $-(-8)$



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10. Point  $A$  and Point  $B$  are shown on the coordinate plane below. Point  $B$  is a reflection of Point  $A$ .



Across which axis was Point  $A$  reflected to get Point  $B$ ?

- (A) The  $x$ -axis                      (B) The  $y$ -axis  
(C) Both axes                        (D) Neither axis

11. Evaluate:  $(7 + 3) \times 2$

- (A) 13                                      (B) 17  
(C) 20                                      (D) 24



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15. A pizza costs \$14 and is split equally among  $f$  friends. Which expression shows each friend's share?

(A)  $14f$

(B)  $14 + f$

(C)  $14 - f$

(D)  $14 \div f$

16. A number minus 16 equals 9. What is the number?

(A)  $-7$

(B)  $7$

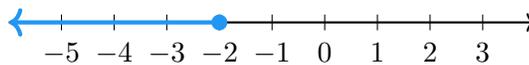
(C)  $25$

(D)  $144$

17. Write an inequality: You must be no fewer than 16 years old to drive. Let  $a$  = age.

Your Answer:

18. Which inequality does the number line below represent?



(A)  $x > -2$

(B)  $x < -2$

(C)  $x \geq -2$

(D)  $x \leq -2$

19. A school bus holds 50 students. How many buses  $b$  are needed for  $s$  students? Write an equation.

Your Answer:



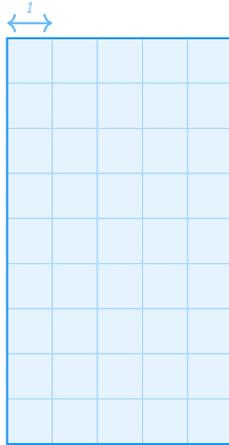
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20. What is the area of a parallelogram with base 9 cm and height 5 cm?



- (A)  $14 \text{ cm}^2$                       (B)  $45 \text{ cm}^2$   
(C)  $22.5 \text{ cm}^2$                       (D)  $28 \text{ cm}^2$

21. A right triangle has vertices  $(0,0)$ ,  $(8,0)$ , and  $(0,6)$ . What is the area?

- (A) 48 square units                      (B) 24 square units  
(C) 14 square units                      (D) 28 square units

22. A cube has edge length 3 cm. What is the surface area?

- (A)  $9 \text{ cm}^2$                       (B)  $27 \text{ cm}^2$   
(C)  $36 \text{ cm}^2$                       (D)  $54 \text{ cm}^2$

23. Data: 10, 12, 14, 15, 16, 18, 50. Identify any outliers and explain their effect on the center.

Your Answer:



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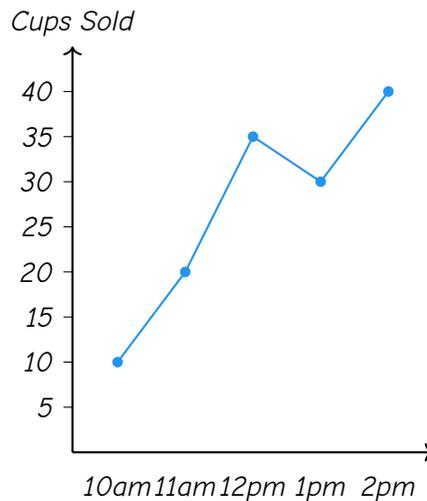




29. The data set is: 14, 18, 19, 22, 25, 27, 31, 33. If you make a stem-and-leaf plot, list the leaves for stem 2 from least to greatest, separated by commas.

Your Answer:

30. The line graph below shows the number of lemonade cups sold each hour at a fair. Use the graph to answer the question.



Between which two consecutive hours did lemonade sales decrease?

- (A) 10am to 11am                      (B) 11am to 12pm  
(C) 12pm to 1pm                      (D) 1pm to 2pm



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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*
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