

$\frac{2}{3}$

FULL-LENGTH

$\frac{2}{4}$

0,25

Oklahoma

$7 \times 8 =$



★★★★★
Aligned to State Standards

7×8

OSTP

$56 \div 7$

MATH

Grade

5

$(a+b)^2$

PRACTICE TESTS

Complete State Standards Review
with Answer Key and
Essential Math Skills Practice



3 Full-Length Practice Tests
Aligned to State Standards



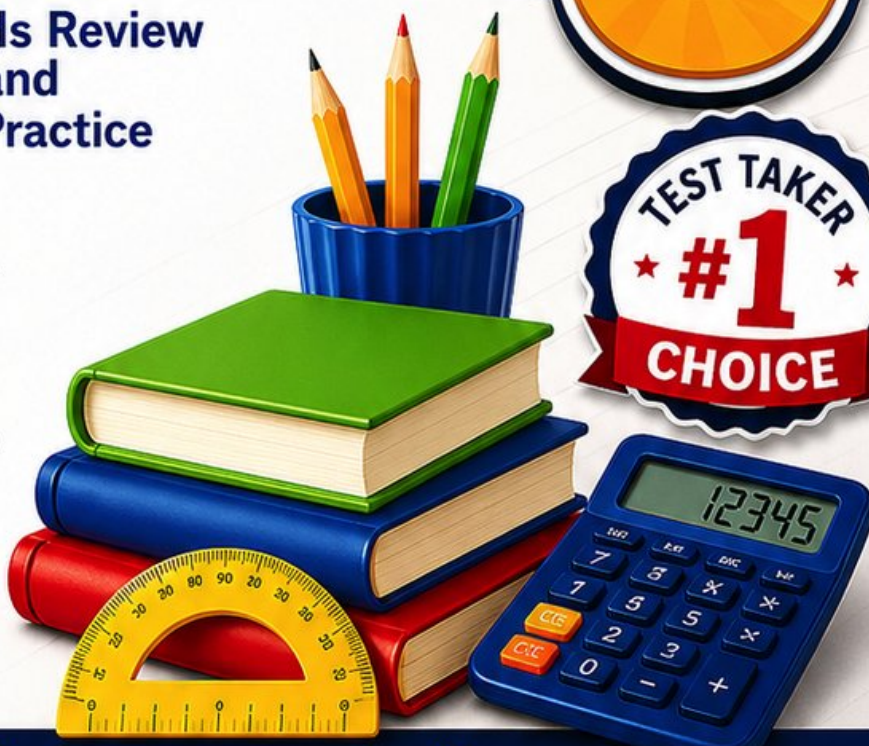
Covers All Grade 5 Math Topics
Numbers & Operations, Fractions,
Decimals, Geometry, Measurement,
Data & Problem Solving



Build Confidence
Strengthen Skills • Improve Accuracy
• Boost Test Readiness



Detailed Answer Key
Step-by-Step Explanations
for All Questions



WRITTEN FOR
GRADE 5 STUDENTS



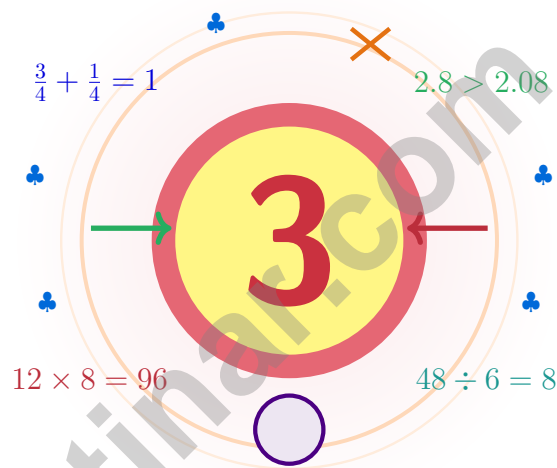
PERFECT FOR
TEST PREP & REVIEW



CLASSROOM, HOME,
OR SELF-STUDY USE

3 Oklahoma OSTP Grade 5 Math Practice Tests

Sooner-state math for thinkers who arrive prepared



Three full tests, a friendly quick review, smart strategy pages, and student-tested support that help Grade 5 mathematicians from The Sooner State walk in ready to think.

Jay Daie and Reza Nazari



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Hello, Oklahoma Problem Solver

Sooner-state math for thinkers who arrive prepared

Dear Oklahoma Math Thinker

Math is a lot like an Oklahoma morning – wide skies, fresh wind, and lots of room to think clearly.

Some questions will feel easy from the very first read. Others will ask you to pause, sketch, estimate, or try again. That is not a problem. That is practice doing exactly what it should do. Every honest attempt grows your math brain a little stronger.

Read

Read with care – math problems hide their gifts.

Try

Try a strategy that fits the size of the numbers.

Reflect

Reflect after each problem to lock the lesson in.

An Oklahoma promise to yourself: I will arrive at each problem early, calm, and ready – the way Sooners do their best work.

Your Game Plan

A simple game plan that turns practice into real progress

Step 1: Notice

Notice the structure: warm-up, test, review.

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Practice

Practice one full test under quiet conditions.

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions, sort out what went sideways, and notice which skills are calling for more attention.

Step 4: Polish

Polish the rough spots before test number two.

Read the explanation, fix the work, and carry that lesson forward into the next test.

Your 3-Week Oklahoma Plan

Week 1	Test 1 is your map-making week.
Week 2	Test 2 is your fix-it week.
Week 3	Test 3 is your show-up-strong week.



Scan me

What These Tests Build

What these practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Sooner State for the Oklahoma OSTP with the steady focus of a wide-prairie sunrise. The goal is bigger than getting answers right. Students are practicing how to read with care, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every single day.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first, ruling out weak choices, and checking for reasonableness can save both time and points.

Constructed-Response Questions

Students show their steps, explain a method, or back up an answer with clear math. Clean reasoning matters because it shows how the answer was actually found.

Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- line plots, tables, numerical patterns, and coordinate points
- geometry and multi-step real-world problems

What strong work looks like on the OSTP: the math is correct, the steps are readable, the labels and units match the problem, and the final answer truly answers the question being asked.



Table of Contents

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Practice Test Answers and Explanations	_____	68

Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

Metric

1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

Customary

1 pound (lb) = 16 ounces (oz)

Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

TIME

1 minute (min) = 60 seconds (sec) 1 week = 7 days

1 hour (hr) = 60 minutes (min) 1 year = 12 months

1 day = 24 hours (hr) 1 year = 52 weeks



1) A recipe calls for 16 ounces of sugar. If you make $\frac{3}{2}$ of the recipe, how much sugar do you need?

A. $10\frac{2}{3}$ ounces

C. 16 ounces

B. 8 ounces

D. 24 ounces

2) A cooler holds 14 gallons and 1 extra cup of lemonade. How many cups is that in total?

A. 180 cups

C. 240 cups

B. 300 cups

D. 225 cups

3) Pattern A is 0, 2, 4, 6, 8, ... Pattern B is 0, 6, 12, 18, 24, ... For the nonzero matching terms, each Pattern B value is how many times the Pattern A value?

Record your answer in the space provided.

4) Without calculating the products, which expression is greatest?

A. 18×25

C. 17×25

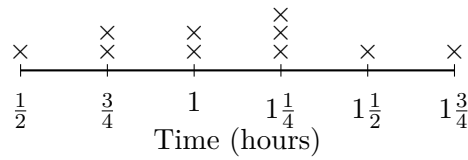
B. 18×26

D. 17×26



5) The line plot displays reading time (in hours) spent on homework by 10 students:

Homework Reading Time



What is the most common reading time?

- A. $\frac{3}{4}$ hour
- B. 1 hour
- C. $1\frac{1}{4}$ hours
- D. $1\frac{1}{2}$ hours

6) Which statement about quadrilaterals is true?

- A. All quadrilaterals have 4 equal sides.
- B. All quadrilaterals have at least one right angle.
- C. Some quadrilaterals have no right angles.
- D. No quadrilateral has parallel sides.

7) Simplify before multiplying: $\frac{5}{10} \times \frac{2}{3}$. Which choice shows the product in simplest form?

- A. $\frac{10}{30}$
- B. $\frac{1}{3}$
- C. $\frac{2}{5}$
- D. $\frac{5}{6}$

8) Two containers hold $\frac{1}{8}$ liter and $\frac{3}{8}$ liter of juice. How much juice in total?

Container	Amount (liters)
Container A	$\frac{1}{8}$
Container B	$\frac{3}{8}$
Total	?

- A. $\frac{2}{8}$ liter
- B. $\frac{3}{8}$ liter
- C. $\frac{1}{2}$ liter
- D. $\frac{8}{8}$ liter



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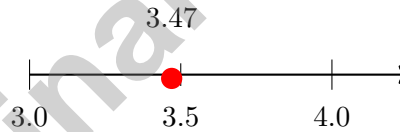
- 1) Observation: $5 \times 20 = 100$; $5 \times 200 = 1,000$; $5 \times 2,000 = 10,000$. Based on this pattern, how many zeros does $5 \times 20,000$ have?

- A. 5
 B. 4
 C. 3
 D. 6

- 2) Find: $2\frac{2}{3} \times 1\frac{1}{4}$.

Record your answer in the space provided.

- 3) A number line shows the position of 3.47 between 3 and 4. What is 3.47 rounded to the nearest whole number?



- A. 4.0
 B. 3.5
 C. 3.7
 D. 3
- 4) Three decimal lengths: 1.5 m, 0.15 m, 0.015 m. Multiply each by 100 (to convert to centimeters). Which result is the largest?

- A. $1.5 \times 100 = 150$ cm
 B. $0.15 \times 100 = 15$ cm
 C. $0.015 \times 100 = 1.5$ cm
 D. All equal



Grade 5 Mathematics Reference Materials

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TIME

1 minute (min) = 60 seconds (sec) 1 week = 7 days

1 hour (hr) = 60 minutes (min) 1 year = 12 months

1 day = 24 hours (hr) 1 year = 52 weeks



1) Add: $4\frac{2}{3} + 2\frac{1}{6}$

A. $6\frac{5}{6}$

B. $6\frac{1}{2}$

C. 7

D. $6\frac{1}{6}$

2) What is $8 \div \frac{1}{3}$?

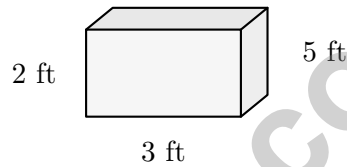
A. 32

B. 8

C. 16

D. 24

- 3) A bookcase is a rectangular prism that is 3 feet wide, 2 feet deep, and 5 feet tall. What is its volume in cubic feet?



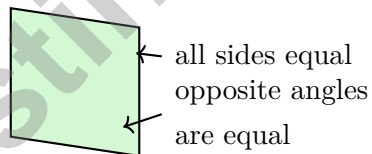
A. 18 cubic feet

B. 25 cubic feet

C. 30 cubic feet

D. 36 cubic feet

4)



What is the BEST name for this figure?

A. Parallelogram

B. Rhombus

C. Rectangle

D. Trapezoid



Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (5.N.1.3) $16 \times \frac{3}{2} = 24$ ounces. Since $\frac{3}{2}$ is greater than 1, the scaled amount is greater than the original amount.
- 2) **Choice D is correct.** (5.GM.3.5) One gallon has 16 cups. $14 \times 16 = 224$ cups, and the extra cup makes $224 + 1 = 225$ cups.
- 3) **The correct answer is 3.** (5.A.1.2) Compare nonzero matching values: $6 \div 2 = 3$, $12 \div 4 = 3$, and $18 \div 6 = 3$. Pattern B is 3 times Pattern A.
- 4) **Choice B is correct.** (5.A.2.3) Both factors are largest in option B: $18 > 17$ and $26 > 25$, so 18×26 is greatest.
- 5) **Choice C is correct.** (5.N.1.3) Count the X marks above each value. The value $1\frac{1}{4}$ has 3 marks, which is more than any other value.
- 6) **Choice C is correct.** (5.GM.1.1) Quadrilaterals all have 4 sides, but their angles can look different. A slanted parallelogram can have no right angles.
- 7) **Choice B is correct.** (5.N.1.3) Simplify $\frac{5}{10} = \frac{1}{2}$. Then $\frac{1}{2} \times \frac{2}{3} = \frac{2}{6} = \frac{1}{3}$.
- 8) **Choice C is correct.** (5.N.2.4) $\frac{1}{8} + \frac{3}{8} = \frac{4}{8} = \frac{1}{2}$ liter of juice.
- 9) **Choice B is correct.** (5.N.3.2) $\frac{1 \times 5}{6 \times 5} = \frac{5}{30}$.
- 10) **Choice A is correct.** (5.GM.3.3) The base has $6 \times 4 = 24$ unit cubes. Since $48 \div 24 = 2$, the prism has 2 layers, so the height is 2 units.
- 11) **The correct answer is $(20 - 6) \div 7$.** (5.A.2.3) The phrase "then divide by 7" applies to the result of $20 - 6$, so use $(20 - 6) \div 7$.
- 12) **Choice B is correct.** (5.N.3.1) Borrow 1 from 5: $4\frac{7}{6} - 2\frac{5}{6} = 2\frac{2}{6}$.
- 13) **Choice B is correct.** (5.A.2.3) Use the rectangular-prism volume formula: $12 \times 7 \times 4 = 336$. So the volume is 336 cubic inches.
- 14) **Choice A is correct.** (5.GM.2.1) The overlap region is $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$ of the whole.
- 15) **The correct answer is 21.** (5.N.1.3) Since $\frac{6}{7} < 1$, multiplying 21 by $\frac{6}{7}$ gives a value less than 21. So 21 is larger.
- 16) **Choice B is correct.** (5.N.1.1) Multiplying by 10,000 moves the decimal four places right. From 4.56, that gives 45,600.
- 17) **Choice C is correct.** (5.A.2.1) Start with the part in parentheses: $4 + 5 = 9$. Now multiply the result by 2: $9 \times 2 = 18$. Nice careful grouping gives answer C.
- 18) **Choice C is correct.** (5.D.1.2) Start with one unit fraction, $\frac{1}{4}$, and share it into 5 equal parts. Each part is $\frac{1}{4} \div 5 = \frac{1}{20}$ of the whole.
- 19) **Choice D is correct.** (5.N.3.2) LCD is 12. $\frac{2}{3} = \frac{8}{12}$ and $\frac{3}{4} = \frac{9}{12}$. Since $8 < 9$, $\frac{2}{3} < \frac{3}{4}$.
- 20) **Choice A is correct.** (5.N.3.3) $\frac{1}{3} = \frac{4}{12}$. $\frac{7}{12} - \frac{4}{12} = \frac{3}{12} = \frac{1}{4}$.
- 21) **Choice C is correct.** (5.N.3.1) $4\frac{5}{5}$ equals 5, so it is not in simplest form. The sum should be written as 5.
- 22) **Choices A, B are correct.** (5.GM.1.1) Every triangle has exactly 3 sides and 3 vertices. Some triangles have a right angle, but many triangles do not.
- 23) **Choice A is correct.** (5.A.2.3) The sandwich cost is 4×6 , and the drink cost is 4×2 . Add those costs first, then subtract the total from 50 to show the change.
- 24) **Choice C is correct.** (5.N.3.1) One fourth of 3 yards is $\frac{1}{4} \times 3 = \frac{3}{4}$ yard.
- 25) **Choice C is correct.** (5.A.1.2) Point C is at (5, 8). Moving 4 units down subtracts 4 from the y -coordinate: $8 - 4 = 4$. The x -coordinate stays 5. So point D is at (5, 4).
- 26) **Choice D is correct.** (5.GM.2.1) Volume = base area \times height = $56 \times 7 = 392$ cm³.
- 27) **Choice B is correct.** (5.A.1.2) Pattern B is made by multiplying by 3 each time: $2 \times 3 = 6$, $6 \times 3 = 18$, and $18 \times 3 = 54$.
- 28) **Choice C is correct.** (5.N.2.1) Fastest: 49.5 seconds (Marcus). Slowest: 52.8 seconds (Jasmine). Difference: $52.8 - 49.5 = 3.3$ seconds.
- 29) **Choice C is correct.** (5.D.1.2) Add the amounts shown: $\frac{1}{4} + 2(\frac{1}{2}) + 2(\frac{3}{4}) + 1 + 1\frac{1}{4} = 5$ cups.



Authors' Notes

From a Friend Who Believes in You

Hi, Brilliant Friend!

◇ I have to tell you something important: I am proud of you. You completed 3 full practice tests. That takes time, focus, and heart. Many students never push themselves like that. You did. That tells me everything about your work ethic. ◇

★ **Here's a friendly reminder:** a test does not measure your worth. It measures one slice of your skills on one day. You are much more than a score. The work you put in to grow—that is the real win. ★

Things I Want You to Remember

- **You are capable.** Every test you finished proves it.
- **You are resilient.** You worked through hard problems.
- **You are growing.** Every mistake taught you something new.
- **You are ready.** The skills are inside you.

One last thing: when you sit down on test day, take a deep breath, smile a tiny smile, and remember that someone (me!) believes in you. You've got this.

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie

Your Math Friend (Always in Your Corner)

Build Skills. Boost Confidence. Excel on the Grade 5 Math Test.

Help your child succeed with confidence! This book includes **3 full-length Grade 5 Math practice tests** aligned to state standards. With a focus on essential skills, problem solving, and test readiness, it's the perfect resource for classroom, home, or on-the-go practice.



WHAT'S INSIDE:



3 Full-Length Grade 5 Math Practice Tests

Realistic test format to build familiarity and confidence.



Covers All Essential Math Topics

Fractions, decimals, geometry, measurement, data, number operations, and more.



Build Strong Math Skills

Strengthen understanding and problem-solving through varied question types.



Detailed Answer Key

Step-by-step explanations to help your child learn from mistakes and improve.



Track Progress & Improve

Use score trackers to identify strengths and focus on areas that need more practice.



The Smarter Way to Prepare!

Consistent practice builds stronger skills, sharper thinking, and test-day success.

- ✓ Reinforce classroom learning
- ✓ Improve accuracy and speed
- ✓ Reduce test anxiety
- ✓ Achieve your best score!



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