

7

Oklahoma

OSTP

GRADE 5

MATHEMATICS

PRACTICE TESTS

✓
PRACTICE
PREPARE
SUCCEED

★★★

Comprehensive Standards-Aligned
Review for Strong Grade 5
Math Performance



$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$

$$2.4 + 1.6 = 4.0$$

$$A = \frac{bh}{2}$$



**7 FULL-LENGTH
PRACTICE TESTS**

Realistic style
questions



**STANDARDS-
ALIGNED**

Covers all Grade 5
standards



BUILD CONFIDENCE

Target weak areas
and improve
performance



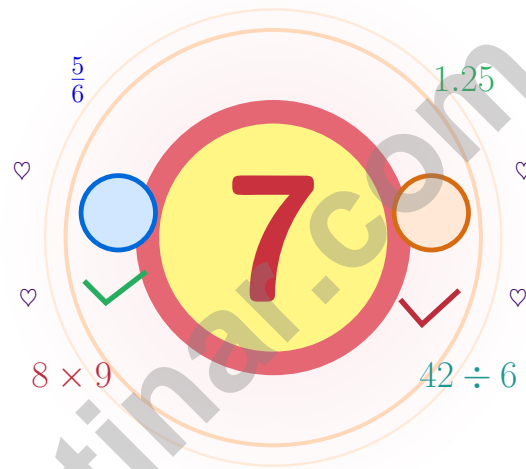
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. **SUCCEED** FOREVER. ★

7 Oklahoma OSTP Grade 5 Math Practice Tests

Seven full tests woven into one calm, steady practice path



Seven full tests, a concise review, and helpful support that turns Grade 5 practice in The Sooner State into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari



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Step Into the Practice Path, Oklahoma

A seven-step expedition for curious Grade 5 thinkers

For Every Curious Mind in Oklahoma

This practice book is your steady companion for seven tests, not a place to be perfect. Math is a lot like an Oklahoma morning – wide skies, fresh wind, and lots of room to think clearly.

Use these seven tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up across seven rounds.

Read

Read every word twice
and underline what is
asked.

Solve

Choose the cleanest
method and show your
steps.

Reflect

Look back to find what
worked and what to fix.

A strong habit for Oklahoma mathematicians: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

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Seven Tests, Seven Lessons

A simple routine that turns practice into progress

Step 1: Power Up

Sharpen your math brain with the quick review.

Spend a few minutes waking up your memory before the test begins.

Step 2: Trail Run

Take a full practice test in a quiet spot.

Work in a calm spot and focus on careful thinking before speed.

Step 3: Debrief

Score honestly and circle missed questions.

Circle missed questions and notice which topics keep showing up.

Step 4: Repair

Fix the missed work and lock the lesson in.

Read the explanation, repair the work, and bring that lesson into the next test.

A Good 7-Week Oklahoma Rhythm

Week 1	Take Test 1 like a wide prairie morning.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and lift fraction and decimal work.
Week 4	Take Test 4 and pay close attention to labels and units.
Week 5	Take Test 5 and compare your habits with your first test.
Week 6	Take Test 6 and practice staying calm during tricky questions.
Week 7	Take Test 7 with calm, careful, confident work.



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Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

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

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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)

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Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

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CAPACITY

Customary

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WEIGHT AND MASS

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TIME

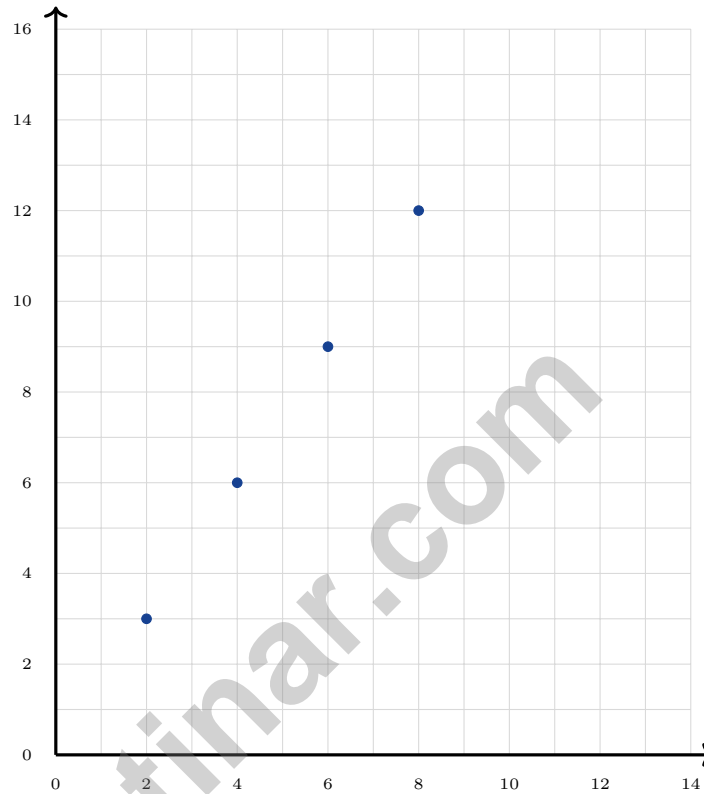
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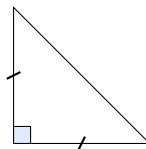


1) Omar plots (2, 3), (4, 6), (6, 9), (8, 12). Looking at his pattern, what should be the next point?



- A. (12, 16)
- B. (9, 13)
- C. (10, 14)
- D. (10, 15)

2) Which name describes a triangle with two equal sides and one right angle?



- A. Isosceles acute
- B. Right isosceles
- C. Scalene obtuse
- D. Equilateral



3) Which is the largest?

A. 91×10

C. 9×1000

B. 91×100

D. 10×100

4) Which subtraction requires borrowing?

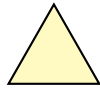
A. $5\frac{4}{5} - 1\frac{2}{5}$

C. $9\frac{1}{6} - 4\frac{5}{6}$

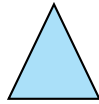
B. $8\frac{2}{7} - 3\frac{1}{7}$

D. $6\frac{3}{4} - 2\frac{1}{4}$

5) Which triangle is equilateral?



A



B



C



D

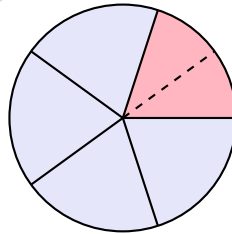
A. A

C. C

B. B

D. D

6) The circle is divided into 5 equal sectors. One sector (which is $\frac{1}{5}$ of the circle) is further divided into 2 equal parts. What fraction of the whole circle is each small part?



A. $\frac{1}{10}$

C. $\frac{1}{7}$

B. $\frac{2}{5}$

D. $\frac{1}{3}$



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- 1) A student estimated $\frac{7}{15} + \frac{5}{13}$ and rounded both fractions to $\frac{1}{2}$, getting 1. Is this estimate within 0.5 of the true value?
- A. Yes, it is within 0.5
 B. No, it is too high
 C. No, it is too low
 D. Cannot tell without computing
- 2) A student wrote that $0.6 < 0.60$ because 0.6 has fewer digits. Is the student correct?
- A. Yes, fewer digits means smaller
 B. No, they are equal
 C. Yes, $0.6 < 0.60$ is always true
 D. No, $0.6 > 0.60$
- 3) A ribbon is $3\frac{1}{3}$ yards long. A decoration uses $1\frac{1}{2}$ times that length. How many yards of ribbon are used?

Record your answer in the space provided.

- 4) A recipe calls for $\frac{2}{3}$ cup of sugar and $\frac{1}{4}$ cup of butter. How many cups of these two ingredients are needed?
- A. $\frac{3}{7}$ cup
 B. $\frac{8}{12}$ cup
 C. $\frac{11}{12}$ cup
 D. $\frac{9}{12}$ cup
- 5) Pattern A: 0, 5, 10, 15, 20. Pattern B: 0, 1, 2, 3, 4. For the nonzero matching terms, each A value is how many times the corresponding B value?

Record your answer in the space provided.



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1) Divide: $345 \div 15$

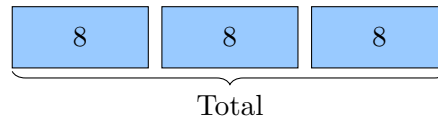
A. 20

C. 25

B. 23

D. 30

2) The tape diagram shows an expression. Which matches it?



A. $8 + 3$

C. $8 - 3$

B. 3×8

D. $8 \div 3$

3) Pattern M: 5, 10, 15, 20. Pattern N: 8, 13, 18, 23. What is the relationship?

M	N
5	8
10	13
15	18
20	23

A. $N = M - 3$

C. $N = 2 \times M$

B. $N = M + 1$

D. $N = M + 3$

4) Evaluate: $24 - 2 \times (3 + 5)$

A. 8

C. 26

B. 16

D. 44



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1) Compute $11.25 - 5.43$.

A. 5.82

C. 5.72

B. 6.15

D. 6.82

2) A factory has 1 meter of wire for light fixtures. Each fixture uses $\frac{1}{10}$ meter of wire. How many fixtures can be wired?

A. 5 fixtures

C. 15 fixtures

B. 10 fixtures

D. 20 fixtures

3) A rectangular prism has base area 88 cm^2 and volume 528 cm^3 . What is the height?

A. 4 cm

C. 6 cm

B. 5 cm

D. 7 cm

4) A rope is multiplied by $\frac{3}{4}$. Without calculating the exact length, is the new length greater than, less than, or equal to the original?

A. Greater than original

C. Equal to original

B. Less than original

D. Cannot determine

5) Subtract and simplify: $\frac{5}{6} - \frac{1}{4}$

Use twelfths as a common denominator.

--	--	--	--	--	--	--	--	--	--

A. $\frac{7}{12}$

C. $\frac{1}{2}$

B. $\frac{2}{3}$

D. $\frac{5}{12}$



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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(5.A.1.2)** Each time x increases by 2, y increases by 3. From (8, 12): x becomes 10, y becomes 15.
- 2) **Choice B is correct.** **(5.GM.1.1)** The diagram shows a right angle (small square) and two equal sides (tick marks), making it a right isosceles triangle.
- 3) **Choice B is correct.** **(5.N.1.1)** Compare: 910, 9100, 9000, 1000. The largest is 9100.
- 4) **Choice C is correct.** **(5.N.3.1)** In C, $\frac{1}{6} < \frac{5}{6}$, so borrowing is required. The others have larger fractional parts in the minuend.
- 5) **Choice A is correct.** **(5.GM.1.1)** An equilateral triangle has all three sides of equal length and all three angles equal to 60° .
- 6) **Choice A is correct.** **(5.N.1.1)** One sector is $\frac{1}{5}$. Divided by 2: $\frac{1}{5} \div 2 = \frac{1}{10}$.
- 7) **Choice A is correct.** **(5.A.1.2)** All four sides are equal: $5 - 1 = 4$ units. All four angles are right angles. This is a square.
- 8) **Choice A is correct.** **(5.GM.2.1)** The model marks 3 of the 5 columns and 2 of the 4 rows. Their overlap covers $3 \times 2 = 6$ of the 20 total squares, so $\frac{3}{5} \times \frac{2}{4} = \frac{6}{20} = \frac{3}{10}$.
- 9) **The correct answer is <.** **(5.N.1.2)** 1.408 has 4 tenths and 0 hundredths. 1.48 has 4 tenths and 8 hundredths. So $1.408 < 1.48$.
- 10) **Choice D is correct.** **(5.N.1.3)** Since $\frac{3}{4} < 1$, multiplying by it makes the result smaller than 5.
- 11) **Choice A is correct.** **(5.N.3.2)** Use a common denominator of 12. Since $\frac{4}{6} = \frac{8}{12}$ and $\frac{3}{4} = \frac{9}{12}$, $\frac{3}{4}$ is greater.
- 12) **Choice D is correct.** **(5.N.3.1)** The tenths digit is 7. Since $7 \geq 5$, round ones up: $156 \rightarrow 157$. So 156.78 miles rounds to 157 miles.
- 13) **Choice B is correct.** **(5.A.1.2)** Rule: Output = $7 \times$ Input; $7 \times 4 = 28$.
- 14) **Choice C is correct.** **(5.GM.1.3)** Count the cubes by layers: 3 by 3 makes 9 cubes in each layer, and there are 2 layers. So $3 \times 3 \times 2 = 18$ unit cubes.
- 15) **The correct answer is 3.** **(5.GM.3.5)** $36 \div 12 = 3$ feet. Since 12 inches make 1 foot, 36 inches makes 3 full feet.
- 16) **Choice B is correct.** **(5.N.1.1)** A equals 0.89, B equals 0.089, C equals 8.9, and D equals 8.9. The smallest quotient is B.
- 17) **Choice D is correct.** **(5.N.1.3)** Doubling means multiplying by 2. $6 \times 2 = 12$ cups. Scaling by a factor greater than 1 increases the amount.
- 18) **Choice D is correct.** **(5.GM.2.1)** The base area is $18 \times 7 = 126$ square centimeters. Since $630 \div 126 = 5$, the height is 5 cm.
- 19) **Choice B is correct.** **(5.A.1.2)** When the input is 4, Rule A gives $2 \times 4 = 8$ and Rule B gives $4 \times 4 = 16$, so the ordered pairs are (4, 8) and (4, 16).
- 20) **Choice D is correct.** **(5.GM.3.3)** The base has $8 \times 3 = 24$ unit cubes. Since $72 \div 24 = 3$, the prism has 3 layers.
- 21) **The correct answer is 4.1.** **(5.N.3.1)** Choose the operation from the story, then keep the unit with the answer. $24.6 \div 6 = 4.1$ m. This confirms the answer.
- 22) **Choices A, C are correct.** **(5.A.2.3)** B and D do not group $5 + 2$ before multiplying.
- 23) **Choice B is correct.** **(5.N.3.1)** $\frac{2}{3}$ is close to $\frac{1}{2}$, and $\frac{1}{8}$ is close to 0. So $\frac{2}{3} - \frac{1}{8} \approx \frac{1}{2} - 0 = \frac{1}{2}$.
- 24) **Choice A is correct.** **(5.N.2.2)** Use the place name to decide the value of the digit. $\frac{7}{10} = 0.7$ (7 tenths). This confirms the answer.
- 25) **The correct answer is 47 cm.** **(5.N.1.3)** Add the heights shown by the marks: $6 + 3(6\frac{1}{2}) + 2(7) + 7\frac{1}{2} = 47$ centimeters.
- 26) **Choice C is correct.** **(5.N.1.1)** The nonzero parts make $2 \times 5 = 10$, which contributes one trailing zero. The factors already have four zeros, so the product has 5 zeros.
- 27) **Choice B is correct.** **(5.N.1.1)** $0.25 \times 100 = 25$ miles (move decimal 2 places right).
- 28) **Choice A is correct.** **(5.A.2.3)** The second expression is the first expression with 50 added. That means the first expression is 50 less than the second one.
- 29) **Choice A is correct.** **(5.N.1.2)** Line up decimal points and subtract place by place. $15.50 - 12.73 = 2.77$ cm decrease. This confirms the answer.



Dear Student,

★ Seven practice tests taught you something bigger than math: persistence. Persistence is the habit of continuing even when something feels difficult. ★

◇ **A growth mindset says:** “I can’t do it yet.” That tiny word—yet—changes everything. ◇

Growth Statements

- **Instead of:** “I’m bad at this.” **Say:** “I’m learning this.”
- **Instead of:** “This is too hard.” **Say:** “I’ll try one step.”
- **Instead of:** “I made a mistake.” **Say:** “Now I know what to fix.”
- **Instead of:** “I’m stuck.” **Say:** “I’ll come back with a plan.”

Keep going. You proved you can improve—seven times.

Email me at reza@testinar.com.

Reza Nazari & Jay Daie

Your Math Coaches (Keep Growing)

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PRACTICE TODAY. PERFORM TOMORROW.

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✓ Summer Learning

✓ On-the-Go Practice

✓
PRACTICE
PREPARE
SUCCEED



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YOUR CHILD

Every step of the way.