

5

FULL-LENGTH

Oregon

OSAS

GRADE 5 MATH

★ PRACTICE TESTS ★



**5 FULL-LENGTH
PRACTICE TESTS**



**COMPLETE
STANDARDS
REVIEW**



**SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!**

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



$$12 \times 3 = 36$$



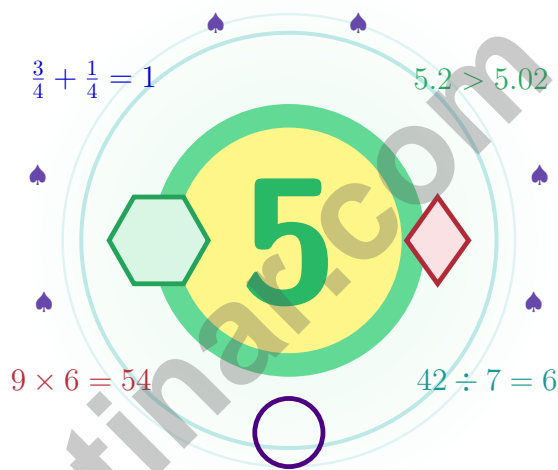
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Oregon OSAS Grade 5 Math Practice Tests

A five-checkpoint expedition for curious Grade 5 thinkers



Five full tests, a friendly quick review, smart strategy pages, and student-tested support that turn Grade 5 practice in The Beaver State into a steady quest of real growth.

Jay Daie and Reza Nazari



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Suit Up, Oregon – Five Checkpoints Ahead

A five-checkpoint expedition for curious Grade 5 thinkers

For Every Curious Mind in Oregon

This book is your practice zone, not a place to be perfect. Each of the five tests gives you a chance to notice clues, choose a strategy, check your thinking, and come back stronger for the next round. Math thinking is like Crater Lake – it looks calm on the surface, and goes a long way down once you start exploring.

Some questions will feel easy right away. Some will make you slow down, draw, estimate, or retry. That is excellent news. It means your math brain is doing real work.

Watch

Watch what the question really wants from you.

Try

Try a strategy that matches the size of the numbers.

Polish

Polish your steps, units, and final answer.

A strong quest habit for Oregon: slow down, write neatly, estimate before you solve, and keep going even when a problem looks tricky at first. That is exactly how confident math students are built.

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Five Tests, Five Lessons

A simple routine that turns five tests into real growth

Step 1: Plan

Plan a quiet hour for one full test.
Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Practice

Take the test with calm focus.
Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Inspect

Inspect every answer like a careful builder.
Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Adjust

Adjust what needs adjusting for the next test.
Read the explanation, repair the work, and carry that lesson into the next test.

A Five-Week Oregon Quest Map

Week	Mission Focus
Week 1	Take Test 1 and read your lake's surface.
Week 2	Take Test 2 and notice one habit that grew steadier.
Week 3	Take Test 3 and lift fractions, decimals, and conversions.
Week 4	Take Test 4 and slow down on multi-step problems.
Week 5	Take Test 5 with calm, deep, careful focus.



Table of Contents

★ Practice Test 1	_____	20
★ Practice Test 2	_____	36
★ Practice Test 3	_____	51
★ Practice Test 4	_____	67
★ Practice Test 5	_____	83
Practice Test Answer Keys	_____	97
Practice Test Answers and Explanations	_____	101

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)

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1 gallon (gal) = 4 quarts (qt)

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WEIGHT AND MASS

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TIME

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

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



1) Pattern A has dots 1, 4, 7, 10, ... Pattern B has dots 2, 8, 14, 20, ... Which statement describes the relationship between matching figures?

- A. Pattern B has 1 more dot than Pattern A. C. Pattern B has 3 fewer dots than Pattern A.
- B. Pattern B has twice as many dots as Pattern A. D. Pattern B has the same number of dots as Pattern A.

2) A construction crew works on two tasks: Task 1: 7:00 AM to 12:15 PM Task 2: 1:00 PM to 6:30 PM

How many total hours and minutes worked that day?

Task 1	Task 2
7:00–12:15	1:00–6:30

Total: ?

- A. 10 hours C. 11 hours
- B. 10 hours 45 minutes D. 11 hours 15 minutes
- 3) A student says: “ $0.5 \div 2$ must be less than 0.5.” Is the student correct?
- A. No, dividing by 2 makes the number greater C. No, the answer equals 0.5
- B. Yes, but only if you round D. Yes, dividing by 2 cuts the number in half
- 4) A cloth is $\frac{1}{2}$ meter long. It is cut into 6 equal pieces. How long is each piece?
- A. $\frac{1}{12}$ meter C. $\frac{1}{6}$ meter
- B. $\frac{6}{2}$ meters D. $\frac{1}{3}$ meter



5) $4.56 \times 10,000 = ?$

 A. 4,560 B. 45,600 C. 456,000 D. 4,560,000

6) A recipe calls for 750 milliliters of milk. How many liters is that?

 A. 0.75 L B. 7.5 L C. 75 L D. 750 L7) In the ordered pair (x, y) , what does the letter y represent? A. How far right B. How far up C. The origin D. The x-axis8) After multiplying $76 \times 1,000$, the product is 76,000. Which original digit from 76 is in the thousands place? A. 6 B. 7 C. 0 D. Both 7 and 69) A fabric piece is $\frac{5}{6}$ meter long. Sarah uses $\frac{3}{5}$ of it for a scarf. How much fabric does she use? Give the answer in simplest form. A. $\frac{15}{6}$ meter B. $\frac{1}{2}$ meter C. $\frac{8}{11}$ meter D. $\frac{2}{3}$ meter

10) Maria has \$25.00 and spends \$8.65 on a book and \$3.50 on a pen. How much does she have left?

Record your answer in the space provided.



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1) The output is 3 more than the input. Which input gives an output of 8?

- A. 4
 B. 11

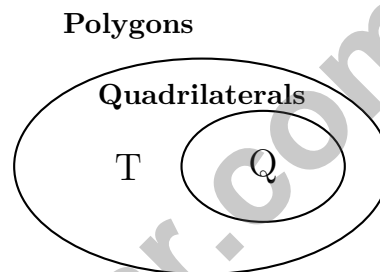
- C. 6
 D. 5

2) What is the value of $12 \times 5 - 10 \div 2 + 3$?

- A. 28
 B. 58

- C. 53
 D. 29

3) A Venn diagram shows quadrilaterals inside polygons:



Why could a triangle be placed in the region labeled T?

- A. It is a polygon, but it does not have 4 sides.
 B. It has 4 sides and 4 right angles.
 C. It is not a polygon.
 D. It has two pairs of parallel sides.

4) A ribbon is 3 yards long. A student uses 4 feet of ribbon for one project and 18 inches for another project. How many inches of ribbon are left?

- A. 42 inches
 B. 54 inches
 C. 66 inches
 D. 72 inches



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- 1) Use the metric conversion chart below. Convert 7.5 meters to centimeters.

km	m	cm	mm
×1000	×100	×10	

- A. 75 cm
- B. 750 cm
- C. 7,500 cm
- D. 75,000 cm
- 2) A water tank holds 150 liters. On Monday, 47.5 liters are used. On Tuesday, 38.25 liters are used. How many liters remain?

- A. 54.5 liters
- B. 64.25 liters
- C. 74.75 liters
- D. 85.75 liters

- 3) What is 0.08×10 ?

- A. 0.8
- B. 0.008
- C. 8
- D. 80

- 4) A science experiment measures 7.635 grams. Round to nearest hundredth.

- A. 7.6 g
- B. 7.63 g
- C. 7.64 g
- D. 7.7 g

- 5) The model shows 1 whole cut into pieces of size $\frac{1}{3}$. How many pieces of size $\frac{1}{3}$ are there in all?

1 whole 

1 whole cut into pieces of size $\frac{1}{3}$

- A. 4
- B. 1
- C. 6
- D. 3



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

- Choice B is correct.** **(5.OA.B.3)** Compare matching figures: $2 = 2 \times 1$, $8 = 2 \times 4$, $14 = 2 \times 7$, and $20 = 2 \times 10$. Pattern B has twice as many dots as Pattern A.
- Choice B is correct.** **(5.GM.C.4)** Task 1: 7:00 AM to 12:15 PM = 5 hours 15 minutes. Task 2: 1:00 PM to 6:30 PM = 5 hours 30 minutes. Total: 5h 15m + 5h 30m = 10 hours 45 minutes.
- Choice D is correct.** **(5.NBT.B.5)** $0.5 \div 2 = 0.25$, which is indeed less than 0.5. Dividing by a whole number greater than 1 makes the result smaller.
- Choice A is correct.** **(5.NF.B.7)** $\frac{1}{2} \div 6 = \frac{1}{2} \times \frac{1}{6} = \frac{1}{12}$.
- Choice B is correct.** **(5.NBT.A.2)** Multiplying by 10,000 moves the decimal four places right. From 4.56, that gives 45,600.
- Choice A is correct.** **(5.GM.C.4)** Divide milliliters by 1,000: $750 \div 1000 = 0.75$ L.
- Choice B is correct.** **(5.GM.A.1)** In an ordered pair (x, y) , the y represents the vertical distance (how far up) from the origin.
- Choice A is correct.** **(5.NBT.A.2)** $76 \times 1,000 = 76,000$. In 76,000, the digit 6 is in the thousands place.
- Choice B is correct.** **(5.NF.B.6)** $\frac{3}{5} \times \frac{5}{6} = \frac{15}{30}$, which simplifies to $\frac{1}{2}$ meter.
- The correct answer is 12.85.** **(5.GM.D.7)** Total spent: $8.65 + 3.50 = 12.15$. Remaining: $25.00 - 12.15 = 12.85$.
- Choice A is correct.** **(5.NF.B.4)** The overlap has $3 \times 4 = 12$ squares out of 60 total, so the fraction is $\frac{12}{60} = \frac{1}{5}$.
- The correct answer is square.** **(5.GM.B.3)** A quadrilateral with four equal sides and four right angles is a square.
- The correct answer is $2\frac{1}{4}$ ft.** **(5.DR.A.1)** Sum with LCD 8: $\frac{3}{8} + \frac{4}{8} + \frac{5}{8} + \frac{6}{8} = \frac{18}{8} = \frac{9}{4} = 2\frac{1}{4}$ ft. Accept equivalent forms.
- Choice B is correct.** **(5.NBT.B.7)** Add: $\$3.29 + \$2.74 = \$6.03$ (hundredths: $9 + 4 = 13$, regroup; tenths: $2 + 7 + 1 = 10$, regroup; dollars: $3 + 2 + 1 = 6$).
- Choice B is correct.** **(5.NF.B.7)** The unit fraction is the amount being shared, so divide $\frac{1}{4}$ by 6. The equation is $\frac{1}{4} \div 6 = n$.
- Choice B is correct.** **(5.NF.A.2)** Common denominator 24: $\frac{1}{3} = \frac{8}{24}$ and $\frac{3}{8} = \frac{9}{24}$. Total: $\frac{8}{24} + \frac{9}{24} = \frac{17}{24}$ mile.
- Choice C is correct.** **(5.GM.B.3)** Figure C has two pairs of parallel sides, all right angles, and all sides equal. Those properties identify a square.
- Choice C is correct.** **(5.NBT.A.2)** Dividing by a power of 10 shifts the value to a smaller place. $2,400 \div 100 = 24$ employees per team. This confirms the answer.
- Choice A is correct.** **(5.NF.B.6)** Grid: $5 \times 4 = 20$ cells total. Shaded (1 of 4 rows, 3 of 5 columns): $1 \times 3 = 3$ cells. Answer: $\frac{3}{20}$.
- Choices A, B are correct.** **(5.GM.A.2)** The second coordinate is 3 times the first coordinate, so (2, 6) is on the pattern. C would need second coordinate 9, and D ignores the up-3 rule.
- Choice C is correct.** **(5.NBT.A.4)** Rounding 6.846 to the nearest hundredth: the thousandths digit is 6. Since $6 \geq 5$, round the hundredths digit up: 4 becomes 5, giving 6.85 kg.
- Choice D is correct.** **(5.GM.D.7)** Use the rectangular-prism volume formula: $7 \times 3 \times 4 = 84$. So the volume is 84 cubic meters.
- Choice C is correct.** **(5.NF.B.7)** 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.
- The correct answer is 0.45.** **(5.NBT.A.1)** Multiplying by 10 moves the decimal point one place right: $0.045 \rightarrow 0.45$.
- Choice C is correct.** **(5.GM.A.2)** The distance is $8 - 4 = 4$ grid squares. Since each square is 10 miles, the total distance is $4 \times 10 = 40$ miles.
- The correct answer is 625.** **(5.NBT.A.3)** Read the place value to decide whether the decimal uses tenths, hundredths, or thousandths. 0.625 is 625 thousandths. This confirms the answer.
- Choice C is correct.** **(5.GM.D.5)** A composite solid has more than one part. Maya found one prism correctly, but she still needs the other non-overlapping volume.



Greetings, Research Scientist!

★ Exceptional research completed! You've conducted five comprehensive mathematical experiments, collecting data, analyzing results, and drawing accurate conclusions like a professional scientist! Each test represented a controlled experiment where you tested your hypotheses, recorded observations, and refined your methodologies. Your scientific approach to problem-solving has developed remarkably! ★

◇ **Here's what accomplished scientists understand:** research requires careful observation, precise measurement, and systematic analysis. They document their procedures so they can replicate successful experiments. You've developed those same scientific practices through these five tests! You've documented (mentally) which strategies work best, and now you can replicate that success on test day!

◇

Research Laboratory Findings

- **Hypothesis Testing:** You systematically evaluate which approaches work best!
- **Data Analysis:** You examine information carefully before drawing conclusions!
- **Experimental Control:** You maintain focus and accuracy throughout testing!
- **Research Complete:** Your findings confirm readiness for test day experimentation!

Remember this scientific principle: careful scientists verify their results before publishing findings. On test day, apply that same careful verification to your work. Double-check your calculations, confirm your answers make sense, and submit your best work. You've practiced the scientific method five times trust your research skills!

Want to publish your mathematical research findings or discuss an interesting problem-solving hypothesis? Submit your papers to reza@testinar.com. The journal awaits your contributions!

Reza Nazari & Jay Daie
Your Math Teacher (Proud of You!)

5 FULL-LENGTH TESTS. STRONG SKILLS. BRIGHTER RESULTS.



Build confidence and master math with **5 full-length** practice tests designed to reflect the real test experience. This book provides the practice, review, and support students need to succeed in Grade 5 and beyond!

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with consistent
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