

5

FULL-LENGTH

Nevada

Smarter Balanced

GRADE 5 MATH

★ PRACTICE TESTS ★



**5 FULL-LENGTH
PRACTICE TESTS**



**COMPLETE
STANDARDS
REVIEW**



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

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



$$12 \times 3 = 36$$



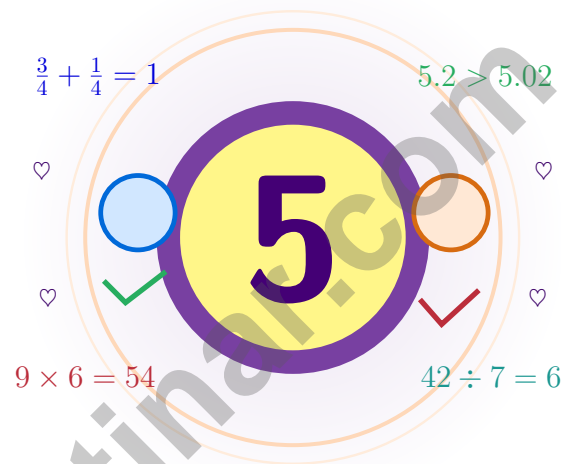
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Nevada Smarter Balanced Grade 5 Math Practice Tests

A five-checkpoint trail built for steady, brave thinking



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

Jay Daie and Reza Nazari



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Nevada Mathematicians, the Quest Awaits

A five-checkpoint trail built for steady, brave thinking

An Invitation to Grade 5 in Nevada

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 shines like silver – it takes a little polishing, but the brightness is already there.

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.

Read Slow

Read every word, twice when needed.

Choose Smart

Pick the operation, sketch, or table that fits.

Grow

Lock the lesson in by reflecting after each problem.

A strong quest habit for Nevada: 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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A Simple Path Through Five Tests

A simple routine that turns five tests into real growth

Step 1: Set Up

Pencil ready, distractions gone.
Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Work the Test

Take a full test like the real day.
Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Look Back

Walk through your answers without rushing.
Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Climb Higher

Pick one or two skills to sharpen next.
Read the explanation, repair the work, and carry that lesson into the next test.

A Five-Week Nevada Quest Map

Week	Mission Focus
Week 1	Take Test 1 and start polishing – even small work creates shine.
Week 2	Take Test 2 and notice one habit that grew steadier.
Week 3	Take Test 3 and polish fractions, decimals, and conversions.
Week 4	Take Test 4 and slow down on multi-step problems.
Week 5	Take Test 5 with calm, careful, bright work.



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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)

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Metric

1 meter (m) = 100 centimeters (cm)

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CAPACITY

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

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1) Compare these two numbers using a place-value chart:

Number	Ones	Tenths	Hundredths	Thousandths
A	4	2	7	6
B	4	2	7	9

Which statement is true?

- A. $4.276 > 4.279$
 C. $4.276 = 4.279$
 B. $4.276 \geq 4.279$
 D. $4.276 < 4.279$

2) A student writes: $36 \times 100 = 360$. What is the error?

Student's Work → What's wrong?

$36 \times 100 = 360$

- A. Only appended one zero instead of two
 C. Used 10 instead of 100
 B. Added the digits instead of multiplying
 D. The answer is correct

3) Subtract: $7\frac{3}{8} - 4\frac{6}{8}$ (requires borrowing).

- A. $2\frac{5}{8}$
 C. $3\frac{1}{8}$
 B. $2\frac{6}{8}$
 D. $3\frac{2}{8}$

4) A recipe uses 400 grams of rice twice in one week. How many kilograms of rice are used in all?

- A. 0.4 kg
 C. 4 kg
 B. 0.8 kg
 D. 8 kg



5) The ordered pairs (1, 4), (2, 8), and (3, 12) follow a number pattern on the coordinate plane. Which statement describes the relationship?

- A. The first coordinate is 4 times the second.
- B. The second coordinate is 4 more than the first.
- C. The second coordinate is 2 times the first.
- D. The second coordinate is 4 times the first.

6) What number belongs in the blank so the equation is true?

$$(\square + 2) \times 3 = 15$$

- A. 2
- B. 3
- C. 5
- D. 6

7) Compare $18 \times \frac{6}{6}$ to $18 \times \frac{1}{2}$. Which is true?

- A. They are equal
- B. $18 \times \frac{6}{6} <$ the other
- C. $18 \times \frac{6}{6} >$ the other
- D. Cannot be determined

8) A scientist records 0.023 grams. If the scale multiplies this by 10^2 , what is the result?

- A. 0.23 g
- B. 2.3 g
- C. 23 g
- D. 230 g

9) A rectangular prism is made up of unit cubes arranged in 9 rows, 4 columns, and stacked 6 high. How many unit cubes (volume) are there?

- A. 180 cubes
- B. 216 cubes
- C. 240 cubes
- D. 288 cubes



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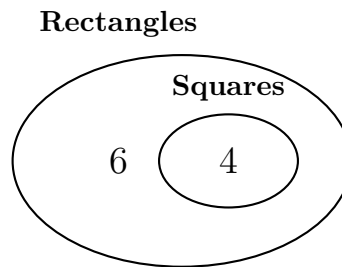
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- 1) A Venn diagram shows squares inside rectangles:



Which statement is supported by this diagram?

- A. No square is a rectangle. C. Every square is a rectangle.
- B. Every rectangle is a square. D. Triangles are rectangles.
- 2) How many zeros are in the product 400×25 ?
- A. 2 C. 4
- B. 3 D. 5
- 3) What is the x-coordinate of the point (7, 2)?

Record your answer in the space provided.

- 4) Find: $\frac{3}{8} \times 100$.

Record your answer in the space provided.



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1) A container: base 4 m by 9 m, height 5 m. Volume = ?

A. 180 m^3

C. 36 m^3

B. 45 m^3

D. 18 m^3

2) How many times greater is the value of a 3 in the tenths place than the value of a 3 in the thousandths place?

A. 2 times

C. 100 times

B. 10 times

D. 1000 times

3) Convert: $750 \text{ cm} = ? \text{ m}$.

Record your answer in the space provided.

4) A storage room is 18 feet long, 12 feet wide, and 10 feet tall. If identical boxes each occupy 360 cubic feet and exactly fill the room with no gaps or overlaps, how many boxes fit in the storage room?

A. 4 boxes

C. 8 boxes

B. 6 boxes

D. 10 boxes

5) Find the sum: $\frac{3}{8} + \frac{1}{6}$.

Record your answer in the space provided.



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1) What is $8,700 \div 1,000$?

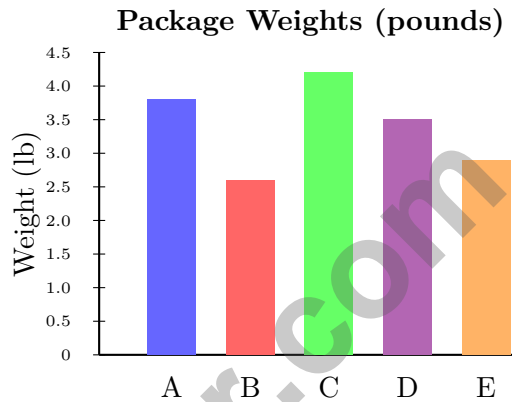
A. 8.7

C. 870

B. 87

D. 87,000

2) The chart shows the weights of different packages at a shipping center. What is the total weight of all packages?



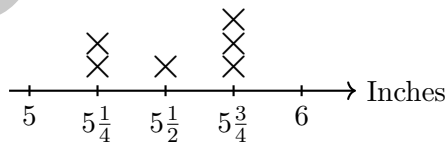
A. 16.8 pounds

C. 17.2 pounds

B. 17.0 pounds

D. 17.4 pounds

3) The line plot shows pencil lengths, in inches. What is the total length of all 6 pencils?



Record your answer in the space provided.



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 D is correct.** (5.NBT.A.1) Both numbers have the same ones, tenths, and hundredths digits. Compare thousandths: $6 < 9$, so $4.276 < 4.279$.
- Choice A is correct.** (5.NBT.A.2) 36×100 means 36 groups of 100, which is 3600. The student wrote 360, so only one zero was placed on the right instead of two.
- Choice A is correct.** (5.NF.A.1) Borrow 1 from 7: $6\frac{11}{8} - 4\frac{6}{8} = 2\frac{5}{8}$.
- Choice B is correct.** (5.MD.A.1) Total rice: $400 + 400 = 800$ g. Convert: $800 \div 1000 = 0.8$ kg.
- Choice D is correct.** (5.G.A.2) For each point, multiply the first coordinate by 4: $1 \times 4 = 4$, $2 \times 4 = 8$, and $3 \times 4 = 12$.
- Choice B is correct.** (5.OA.A.1) Think backward from 15. Since something times 3 equals 15, the parentheses must equal 5. Then $\square + 2 = 5$, so the blank is 3.
- Choice C is correct.** (5.NF.B.5a) $\frac{6}{6} = 1 > \frac{1}{2}$, so $18 \times 1 > 18 \times \frac{1}{2}$.
- Choice B is correct.** (5.NBT.A.2) $0.023 \times 100 = 2.3$ (move decimal 2 places right).
- Choice B is correct.** (5.MD.C.5a) Volume = $9 \times 4 \times 6 = 36 \times 6 = 216$ cubic units.
- Choice D is correct.** (5.NBT.B.7) $8.4 \div 6 = 1.4$, which is between 1 and 2.
- Choice A is correct.** (5.OA.A.2) Total miles means add the two days together. Day 1 is 80 miles, and day 2 is $80 - 15$ miles, so the total is $80 + (80 - 15)$.
- Choice B is correct.** (5.MD.C.5) The base area is $12 \times 4 = 48$ square inches. Since $240 \div 48 = 5$, the height is 5 in.
- Choice C is correct.** (5.NBT.A.2) $3 \times 10^3 = 3 \times 1000 = 3000$, so $n = 3$.
- Choice D is correct.** (5.NF.A.2) $\frac{7}{8} - \frac{3}{8} = \frac{4}{8} = \frac{1}{2}$ of the tank.
- Choice B is correct.** (5.G.B.4) A rhombus is a quadrilateral with all four sides equal in length. It does not have to have four right angles.
- Choice C is correct.** (5.NF.B.7c) $3 \div \frac{1}{6} = 3 \times 6 = 18$. There are 18 slices in 3 pizzas.
- Choice B is correct.** (5.NF.B.7c) The diagram shows $\frac{1}{3}$ split into 2 equal parts, which represents $\frac{1}{3} \div 2 = \frac{1}{6}$.
- The correct answer is $\frac{2}{3}$.** (5.NF.A.2) Divide both by 6 (the GCF): $\frac{12 \div 6}{18 \div 6} = \frac{2}{3}$.
- Choice C is correct.** (5.NF.A.2) $\frac{5}{9} \approx \frac{1}{2}$ and $\frac{5}{11} \approx \frac{1}{2}$. So $\frac{5}{9} + \frac{5}{11} \approx 1$.
- The correct answer is $3\frac{1}{2}$.** (5.NF.B.4) Four copies of $\frac{7}{8}$ make $\frac{28}{8}$. Divide 28 by 8 to get $3\frac{4}{8}$, which simplifies to $3\frac{1}{2}$.
- Choice C is correct.** (5.MD.C.5a) Prism A: $8 \times 6 \times 5 = 240$ cm³. Prism B: $10 \times 4 \times 6 = 240$ cm³. Since the volumes match, both prisms use the same amount of clay.
- Choices A, B, D are correct.** (5.MD.C.5) Multiply the three dimensions for each prism. Choices A, B, and D each equal 120 cubic feet, while C equals 80 cubic feet.
- Choice A is correct.** (5.NF.B.5b) $3\frac{1}{4} = \frac{13}{4}$. Then $\frac{13}{4} \times 2 = \frac{26}{4} = 6\frac{2}{4} = 6\frac{1}{2}$.
- Choice B is correct.** (5.NBT.B.7) Estimate: $2.89 \approx 3$ and $3.15 \approx 3$, so $3 + 3 = 6$. Exact: $2.89 + 3.15 = 6.04$ (hundredths: $9 + 5 = 14$, regroup; tenths: $8 + 1 + 1 = 10$, regroup; ones: $2 + 3 + 1 = 6$).
- Choice C is correct.** (5.G.B.4) The side marks show all three sides are equal. The angle marks also match. A triangle with all sides equal is equilateral.
- Choice D is correct.** (5.OA.B.3) The numbers do not increase by the same amount each time; instead, each term is doubled. Since $10 \times 2 = 20$, $20 \times 2 = 40$, and $40 \times 2 = 80$, the rule is multiply by 2.
- Choice B is correct.** (5.NBT.A.2) Move the decimal 1 place left: $11.4 \div 10 = 1.14$.
- Choice C is correct.** (5.MD.B.2) Count the X marks at $1\frac{1}{2}$ meters. There are 3 X marks, so 3 fabric pieces are $1\frac{1}{2}$ meters long.
- Choice C is correct.** (5.NBT.A.3b) The fastest time is the smallest: $12.35 < 12.40 < 12.45 < 12.54$. Casey's time of 12.35 seconds is fastest.
- The correct answer is 36855.** (5.NBT.B.5) $819 \times 5 = 4,095$ and $819 \times 40 = 32,760$. Sum: $4,095 + 32,760 = 36,855$.
- The correct answer is 15.** (5.NF.B.7c) Each meter has 3 third-meter pieces. Five meters have $5 \times 3 = 15$ pieces.



Case Closed: Success Ahead

Greetings, Math Detective!

★ Outstanding investigation! You've cracked the code on five complete practice tests, examining every clue and solving every mathematical mystery like a brilliant detective! Each problem was a puzzle, and you methodically gathered evidence, analyzed patterns, and reached accurate conclusions. That analytical thinking you've developed will serve you well on test day and beyond! ★

◇ **Here's what master detectives know:** not every case solves itself immediately. Sometimes you need to examine the evidence from different angles, try various approaches, and remain persistent until you crack the code. You've practiced exactly that through these five tests! Your investigative skills have sharpened considerably, and you're ready to solve any mathematical mystery that comes your way! ◇

Detective's Case File: Your Skills

1. **Clue Collection:** You gather all important information from problems before solving!
2. **Pattern Recognition:** You identify mathematical patterns like a trained investigator!
3. **Evidence Analysis:** You evaluate which strategies work best for each problem type!
4. **Case Resolution:** You stay focused until you've found the correct solution!

Fascinating detective fact: the best investigators keep detailed notes about their methods so they can solve similar cases faster in the future. Your brain has been doing exactly that throughout these five tests, storing successful strategies in your mental filing cabinet. On test day, you'll be able to retrieve those proven methods instantly!

If you discover a particularly clever problem-solving strategy or want to share your mathematical mysteries, send your findings to reza@testinar.com. I love hearing about breakthrough investigations!

Reza Nazari & Jay Daie

Your Math Coaches (Proud of Your Progress!)

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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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Build Confidence
with consistent
practice



Improve Accuracy
and problem-
solving skills



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