

5

FULL-LENGTH

Hawaii

Smarter Balanced

GRADE 5 MATH

★ PRACTICE TESTS ★



**5 FULL-LENGTH
PRACTICE TESTS**



**COMPLETE
STANDARDS
REVIEW**



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

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



$$12 \times 3 = 36$$



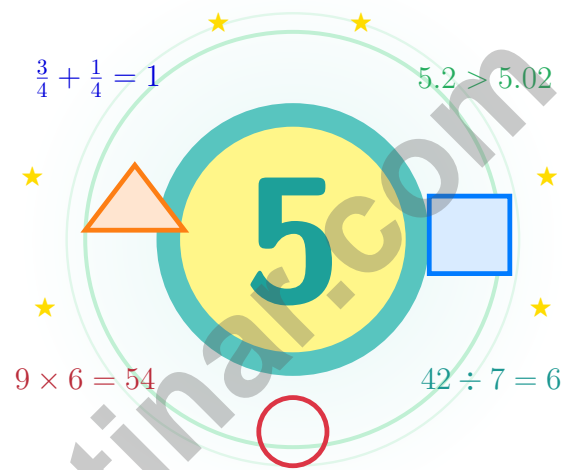
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Hawaii Smarter Balanced Grade 5 Math Practice Tests

Five full tests and a coach's voice on every page



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

Jay Daie and Reza Nazari



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Strap In, Hawaii – Five-Test Trail

Five full tests and a coach's voice on every page

Hawaii Mathematicians, Read This First

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. Strong math work moves like an outrigger canoe: balanced strokes, steady eyes, and a calm heart on the open ocean.

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.

Look

Look at the problem
like a careful detective.

Test

Test your idea one
careful step at a time.

Repair

Repair what was off
and try the next one.

A strong quest habit for Hawaii: 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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Scan me

From Cover to Final Test

A simple routine that turns five tests into real growth

Step 1: Notice

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

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

Step 2: Practice

Practice one full test in quiet conditions.

Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Polish

Polish the rough spots before test number two.

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

A Five-Week Hawaii Quest Map

Week	Mission Focus
Week 1	Take Test 1 and find your launch line.
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 strokes and careful aim.



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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 $A = l \times w$

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LENGTH

Customary

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1) Which expression correctly shows how to find $\frac{1}{6}$ divided by 4?

A. $\frac{1}{6} \times 4$

B. $\frac{1}{6} \times \frac{1}{4}$

C. $\frac{1}{6} + 4$

D. $4 \div \frac{1}{6}$

2) Subtract: $\frac{4}{5} - \frac{2}{3}$

A. $\frac{2}{15}$

B. $\frac{2}{8}$

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

D. $\frac{14}{15}$

3) Write 3500 using powers of 10.

Expansion	Power Form	Value
$3000 + 500$?	3500

Which power form is correct?

A. $3 \times 10^3 + 5 \times 10^1$

B. $3 \times 10^2 + 5 \times 10^2$

C. $3 \times 10^3 + 5 \times 10^2$

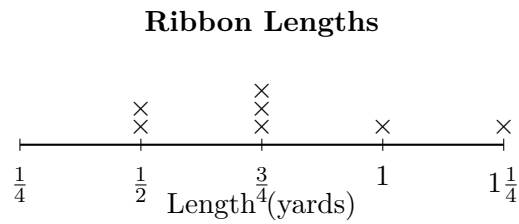
D. 35×10^1

4) 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.



5) The line plot shows ribbon lengths measured by students:

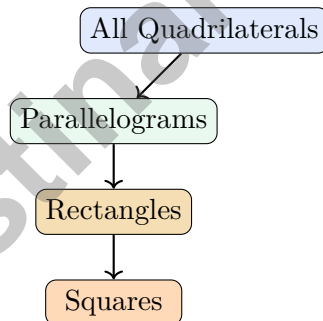


What is the total length of the three ribbons that are each $\frac{3}{4}$ yard long?

- | | |
|--|--|
| <input type="checkbox"/> A. $1\frac{1}{2}$ yards | <input type="checkbox"/> C. $\frac{3}{4}$ yard |
| <input type="checkbox"/> B. $2\frac{1}{4}$ yards | <input type="checkbox"/> D. 3 yards |
- 6) A triangle with all sides different is called:

- | | |
|---|-------------------------------------|
| <input type="checkbox"/> A. Equilateral | <input type="checkbox"/> C. Scalene |
| <input type="checkbox"/> B. Isosceles | <input type="checkbox"/> D. Right |

7)



According to this hierarchy, which is FALSE?

- | | |
|--|---|
| <input type="checkbox"/> A. Every square is a rectangle. | <input type="checkbox"/> C. Every rectangle is a parallelogram. |
| <input type="checkbox"/> B. Every rectangle is a square. | <input type="checkbox"/> D. Every square is a quadrilateral. |



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1) A garden planter measures 11 inches long, 5 inches wide, and 7 inches tall. What is its volume?

- A. 55 cubic inches C. 77 cubic inches
 B. 385 cubic inches D. 35 cubic inches

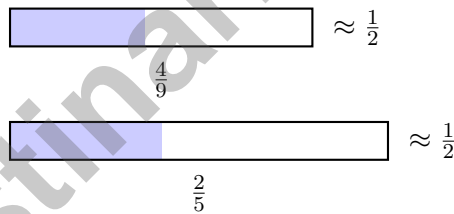
2) Multiply: $2\frac{1}{5} \times 1\frac{1}{4}$

- A. $2\frac{3}{4}$ C. 3
 B. $2\frac{11}{20}$ D. $2\frac{1}{5}$

3) Compare without calculating: 6×20 12×10

- A. > C. =
 B. < D. Cannot tell

4) Estimate: $\frac{4}{9} + \frac{2}{5}$.



- A. Close to 0 C. Close to 1
 B. Close to $\frac{1}{2}$ D. Close to 2

5) Which factor makes factor $\times 6 > 6$ true?

- A. $\frac{4}{5}$ C. 1
 B. $\frac{9}{10}$ D. $1\frac{1}{10}$



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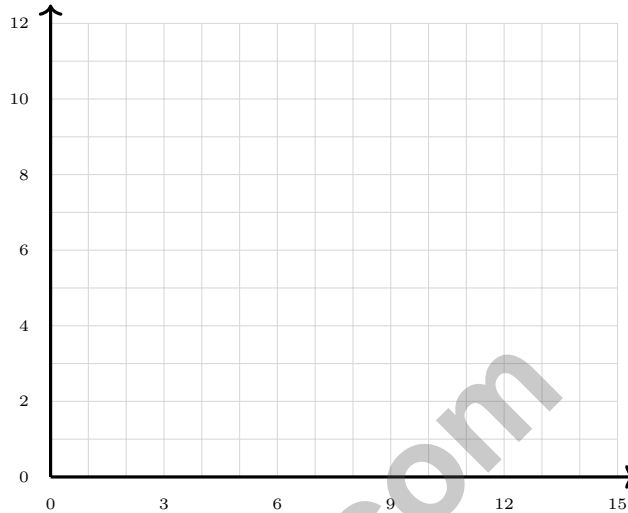
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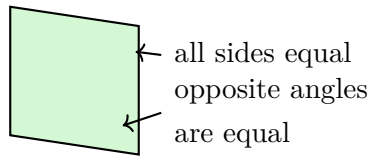
- 1) Use Pattern A values as x -values and Pattern B values as y -values. Pattern A adds 5 starting at 0, and Pattern B adds 2 starting at 0. Which list shows the ordered pairs?



- A. (0, 0), (5, 2), (10, 4)
 - B. (0, 0), (2, 5), (4, 10)
 - C. (0, 0), (3, 5), (6, 10)
 - D. (0, 0), (5, 5), (10, 10)
- 2) Which mixed number equals $4\frac{5}{7} - 1\frac{2}{3}$?

- A. $2\frac{1}{21}$
- B. $3\frac{1}{21}$
- C. $3\frac{3}{10}$
- D. $4\frac{1}{21}$

3)



What is the BEST name for this figure?

- A. Parallelogram
- B. Rhombus
- C. Rectangle
- D. Trapezoid



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1) A runner's time is 42.567 seconds. Round to the nearest hundredth for a record.

- A. 42.5 sec C. 42.57 sec
 B. 42.56 sec D. 42.6 sec

2) Where does the product land when 9 is scaled by $\frac{2}{3}$?

- A. At 3 C. At 9
 B. At 6 D. At 12

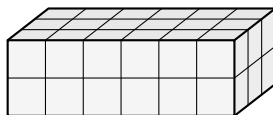
3) Which student made an error multiplying $\frac{3}{5} \times \frac{2}{7}$?

Student	Work
Leo	$\frac{3}{5} \times \frac{2}{7} = \frac{6}{35}$
Sage	$\frac{3}{5} \times \frac{2}{7} = \frac{3+2}{5+7} = \frac{5}{12}$
Quinn	$\frac{3}{5} \times \frac{2}{7} = \frac{6}{35}$
Riley	$\frac{3}{5} \times \frac{2}{7} = \frac{3}{5} + \frac{2}{7}$

- A. Leo only C. Quinn only
 B. Leo and Quinn D. Sage and Riley
- 4) Find the missing multiplier: $? \times 400 = 360,000$

- A. 900 C. 9,000
 B. 90 D. 9

5) What are the dimensions of a rectangular prism that contains exactly 36 unit cubes?



- A. $2 \times 2 \times 8$ C. $3 \times 4 \times 2$
 B. $2 \times 3 \times 6$ D. $3 \times 3 \times 5$



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 B is correct.** (5.NF.B.7c) Dividing by a whole number means multiplying by its reciprocal: $\frac{1}{6} \div 4 = \frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$.
- 2) **Choice A is correct.** (5.NF.A.2) LCD = 15. $\frac{4}{5} = \frac{12}{15}$; $\frac{2}{3} = \frac{10}{15}$. $\frac{12}{15} - \frac{10}{15} = \frac{2}{15}$.
- 3) **Choice C is correct.** (5.NBT.A.2) $3500 = 3 \times 1000 + 5 \times 100 = 3 \times 10^3 + 5 \times 10^2$.
- 4) **The correct answer is 12.85.** (5.MD.C.5) Total spent: $8.65 + 3.50 = 12.15$. Remaining: $25.00 - 12.15 = 12.85$.
- 5) **Choice B is correct.** (5.MD.B.2) There are 3 X marks above $\frac{3}{4}$ yard. $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}$ yards.
- 6) **Choice C is correct.** (5.G.B.4) A scalene triangle has all three sides of different lengths.
- 7) **Choice B is correct.** (5.G.B.4) The hierarchy shows rectangles are a subset of parallelograms, and squares are a subset of rectangles. Not every rectangle is a square.
- 8) **Choice C is correct.** (5.MD.A.1) Total: $8.5 + 12.3 + 9.7 + 10.5 = 41.0$ kg.
- 9) **Choice C is correct.** (5.NF.B.5b) $\frac{2}{5} \times \frac{2}{3} = \frac{2 \times 2}{5 \times 3} = \frac{4}{15}$.
- 10) **Choice B is correct.** (5.MD.C.5a) $V = B \times h = 45 \times 2 = 90$ m³.
- 11) **Choice D is correct.** (5.NF.A.2) LCM of 2, 3, 4, and 6 is 12, so the least common denominator is 12.
- 12) **Choice A is correct.** (5.G.B.3) A hexagon has 6 sides and 6 vertices. Because all sides and angles are equal, it is a regular hexagon.
- 13) **Choice A is correct.** (5.NF.A.1) Rearrange: $? = 1\frac{1}{4} - \frac{3}{8} = \frac{5}{4} - \frac{3}{8} = \frac{10}{8} - \frac{3}{8} = \frac{7}{8}$.
- 14) **Choice A is correct.** (5.NF.B.4b) $\frac{1}{3} \times \frac{2}{3} = \frac{2}{9}$. The overlap covers 2 squares out of 9 total.
- 15) **Choice D is correct.** (5.NBT.B.6) $1,248 \div 24 = 52$ crates. Check: $24 \times 52 = 1,248$.
- 16) **Choice B is correct.** (5.G.A.2) The point (6, 2) is located 6 units to the right along the x -axis and 2 units up along the y -axis from the origin.
- 17) **Choice B is correct.** (5.NBT.B.7) Subtract the scene time from the total time: $2.45 - 1.25 = 1.20$. The rest of the movie lasts 1.20 hours.
- 18) **Choice B is correct.** (5.NBT.A.3a) The decimal 0.63 is read as “sixty-three hundredths” because there are two decimal places (hundredths position). Avoid using “point” or “and” when reading decimals less than 1.
- 19) **Choice B is correct.** (5.G.A.1) In an ordered pair (x, y) , the second number is the y -coordinate. For (4, 9), the y -coordinate is 9.
- 20) **Choice C is correct.** (5.NBT.A.2) $3.5 \times 10 = 35$ mm (move decimal 1 place right).
- 21) **Choices A, B are correct.** (5.MD.C.5) The base area is $4 \times 3 = 12$ square units. Then $48 \div 12 = 4$, so the height is 4 units. C and D come from mixing up the height with the volume.
- 22) **Choice C is correct.** (5.OA.A.1) Evaluate each expression carefully: $A = 20$, $B = 14$, $C = 36$, and $D = 22$. Since 36 is the greatest value, choice C is correct.
- 23) **Choice B is correct.** (5.NBT.A.2) Total sheets divided by sheets per student: $3,600 \div 100 = 36$ students.
- 24) **Choice A is correct.** (5.NF.B.5a) $12 \times 1 = 12$ and $12 \times \frac{5}{4} = 15$. Since $\frac{5}{4} > 1$, multiplying by it increases the value: $15 > 12$.
- 25) **The correct answer is 33.** (5.OA.A.1) Start with $12 - 4 = 8$. Then $3 \times 8 = 24$ and $18 \div 2 = 9$, so $24 + 9 = 33$.
- 26) **Choice C is correct.** (5.OA.B.3) Each fold doubles the number of sections. Counting fold by fold gives 2, 4, 8, 16, 32, so after 5 folds there are 32 sections.
- 27) **Choice D is correct.** (5.NBT.A.1) The chart shows 0 ones, 6 tenths, 0 hundredths, and 9 thousandths: $0 + 0.6 + 0 + 0.009 = 0.609$.
- 28) **Choice D is correct.** (5.MD.C.5c) Find each part first: Prism A is $9 \times 4 \times 5 = 180$ cubic meters, and Prism B is $6 \times 2 \times 3 = 36$ cubic meters. Because the parts do not overlap, add them: $180 + 36 = 216$ cubic meters.
- 29) **Choice D is correct.** (5.NBT.B.5) Multiply: $39 \times 28 = 39 \times (30 - 2) = (39 \times 30) - (39 \times 2) = 1,170 - 78 = 1,092$ seats.
- 30) **The correct answer is 5.** (5.MD.C.3b) Each unit cube takes up 1 cubic unit of space. A line of 5 unit cubes therefore has volume 5 cubic units.
- 31) **The correct answer is 20.** (5.G.A.2) Compare the y -values: $70 - 50 = 20$. The temperature changed by 20 degrees.



Director's Notes: Final Scene

Greetings, Star Performer!

★ Spectacular performance! You've rehearsed five complete mathematical productions, perfecting your delivery and timing like a professional actor! Each test was a dress rehearsal, allowing you to fine-tune your performance, discover your strengths, and polish your techniques. Opening night (test day) approaches, and you're absolutely ready for the spotlight! ★

◇ **Here's what acclaimed performers understand:** confidence comes from thorough preparation. Professional actors rehearse extensively so that when the curtain rises, they can perform naturally and confidently. You've completed your rehearsals five of them! Your mathematical performance skills are polished and ready. Trust your preparation and deliver an outstanding show! ◇

Performance Review Notes

1. **Character Development:** You understand your mathematical role completely!
2. **Stage Presence:** You approach problems with confidence and poise!
3. **Line Delivery:** You express solutions clearly and accurately!
4. **Show Ready:** You're prepared for a standing ovation!

Remember this performance wisdom: great actors don't memorize words they understand characters. You haven't just memorized procedures you understand mathematical concepts. That deep understanding means you can adapt to any question variation. When the test begins, step into your role confidently and perform brilliantly!

Want to share your mathematical performance insights or celebrate a particularly elegant solution? Send your reviews to reza@testinar.com. I appreciate mathematical artistry!

Reza Nazari & Jay Daie

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practice



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