

8

FULL-LENGTH

Hawaii

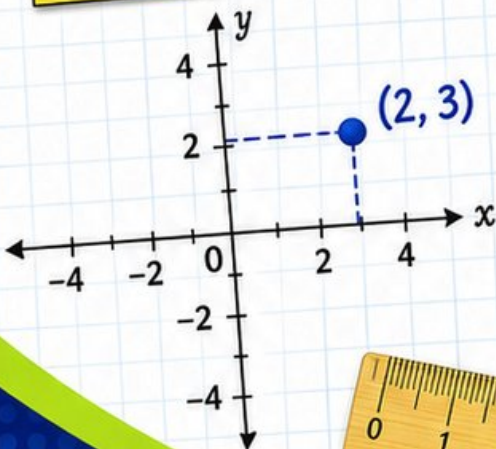
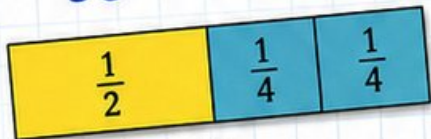
Smarter Balanced

GRADE 5

MATH PRACTICE TESTS

Mixed Practice Questions with Answer Key
for Students, Parents, and Teachers

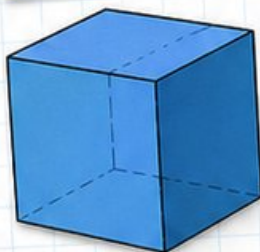
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

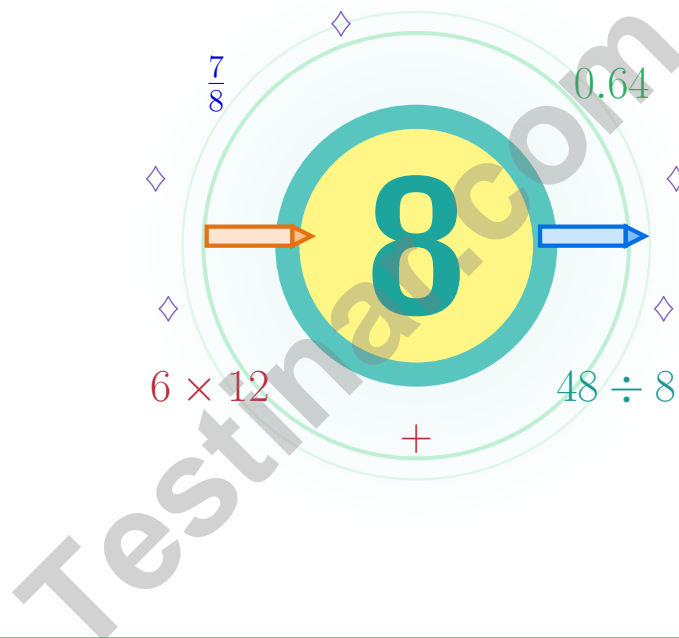
$$7 \times (12 - 5) = 49$$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



8 Hawaii Smarter Balanced Grade 5 Math Practice Tests

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



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

Jay Daie and Reza Nazari



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Eight-Step Math Adventure, Hawaii

Seven chances to grow your math mind one careful step at a time

Hawaii Grade 5: This Trail Is for You

This practice book is your steady companion for eight tests, not a place to be perfect. Strong math work moves like an outrigger canoe: balanced strokes, steady eyes, and a calm heart on the open ocean.

Use these eight 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.

Watch

Watch what the problem actually wants from you.

Choose

Choose the operation, model, or table that fits.

Polish

Check labels, units, and the final word of the question.

A strong habit for Hawaii 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 Steps, One Routine

A simple routine that turns practice into progress

Step 1: Open

Open the warm-up review and use it.

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

Step 2: Test

Take the test with steady focus.

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

Step 3: Reflect

Notice what was sharp and what was shaky.

Circle missed questions and notice which topics keep showing up.

Step 4: Sharpen

Practice the shaky skills before the next round.

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



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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)

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

Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

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CAPACITY

Customary

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

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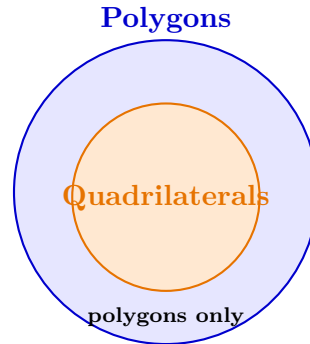
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) A Venn diagram has a large circle for polygons and a smaller circle inside it for quadrilaterals. Where should a pentagon be placed?



- A. Inside quadrilaterals
- B. Outside polygons
- C. Inside polygons only
- D. In the intersection of polygons and quadrilaterals
- 2) What is 47.863 rounded to the nearest tenth?
- A. 47.8
- B. 47.86
- C. 47.9
- D. 48.0
- 3) A paint can is $\frac{5}{6}$ full. If $\frac{2}{6}$ is used to paint a door, how much paint remains?
- A. $\frac{1}{6}$
- B. $\frac{2}{6}$
- C. $\frac{1}{2}$
- D. $\frac{7}{6}$
- 4) $4.56 \times 10,000 = ?$
- A. 4,560
- B. 45,600
- C. 456,000
- D. 4,560,000



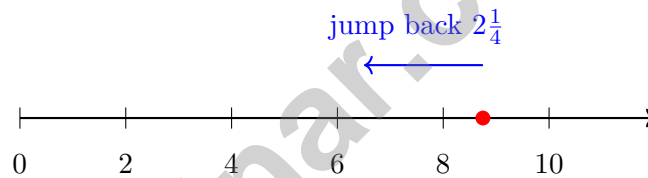
- 5) Pattern X: 0, 1, 2, 3, 4. Pattern Y: 0, 3, 6, 9, 12. What is the 4th ordered pair (X, Y) ?

Record your answer in the space provided.

- 6) Compare $\frac{11}{10} \times 30$ to 30. Which is correct?

- A. $\frac{11}{10} \times 30 < 30$
 C. Cannot be determined
 B. $\frac{11}{10} \times 30 = 30$
 D. $\frac{11}{10} \times 30 > 30$

- 7) Using a number line, jump backward from $8\frac{3}{4}$ by $2\frac{1}{4}$. Where do you land?



- A. 6 wholes
 C. $6\frac{1}{4}$
 B. $6\frac{3}{4}$
 D. $6\frac{1}{2}$
- 8) What is 3×1000 ?
- A. 300
 C. 30000
 B. 3000
 D. 3300
- 9) Simplify then multiply: $\frac{8}{12} \times \frac{3}{4}$. What is the result?

- A. $\frac{24}{36}$
 C. $\frac{1}{3}$
 B. $\frac{1}{2}$
 D. $\frac{5}{6}$



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1) What is the value of $(20 \div 2) + 6$?

A. 4

C. 16

B. 8

D. 20

2) Two patterns use the term number as the input. Pattern A is the term number, and Pattern B is twice the term number. What are the ordered pairs for terms 1, 2, and 3?

A. (1, 2), (2, 4), (3, 6)

B. (1, 1), (2, 2), (3, 3)

C. (1, 3), (2, 4), (3, 5)

D. (2, 1), (4, 2), (6, 3)

3) In the number 6.184, what digit is in the thousandths place?

Record your answer in the space provided.

4)

Orig: 5×2



Scale height
by $\frac{3}{2}$

A rectangle has width 5 and height 2. If the height is scaled by $\frac{3}{2}$, what is the new height?

A. 2

C. 3

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

D. 5



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Customary	Metric
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WEIGHT AND MASS

Customary	Metric
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1) A piece of wire is 0.85 meter long. If it is cut into 10 equal pieces, how long is each piece?

- A. 8.50 m C. 0.008 m
 B. 0.085 m D. 8.5 m

2) **Error Analysis:** A student says a box with volume 270 cm^3 , length 15 cm, and width 9 cm has height 3 cm. What is the correct height?

- A. 2 cm C. 4 cm
 B. 3 cm D. 5 cm

3) What is $16 \div \frac{1}{2}$?

- A. 16 C. 32
 B. 24 D. 40

4) A supply cabinet measures 6 inches long, 7 inches wide, and 5 inches tall. What is its volume?

- A. 42 cubic inches C. 30 cubic inches
 B. 210 cubic inches D. 35 cubic inches

5) After multiplying 0.037 by 100, which digit is in the ones place?

- A. 0 C. 7
 B. 3 D. 37



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 C is correct.** (5.G.B.4) A pentagon is a polygon with 5 sides. It is not a quadrilateral because it does not have 4 sides.
- Choice C is correct.** (5.NBT.A.4) The tenths place in 47.863 is 8. The hundredths place is 6. Since 6 is greater than or equal to 5, we round the tenths digit up from 8 to 9. Therefore, 47.863 rounded to the nearest tenth is 47.9.
- Choice C is correct.** (5.NF.A.2) $\frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$. Subtract the numerators when denominators are the same, then simplify.
- 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.
- The correct answer is (3,9).** (5.NBT.A.2) Match the terms in the same positions from Pattern X and Pattern Y. The first four pairs are (0,0), (1,3), (2,6), and (3,9). Accept equivalent spacing or comma formatting.
- Choice D is correct.** (5.G.A.2) $\frac{11}{10} > 1$, so the product is greater than 30.
- Choice D is correct.** (5.NF.B.5a) Start at $8\frac{3}{4}$ and hop back $2\frac{1}{4}$ to land at $6\frac{2}{4} = 6\frac{1}{2}$. Verify: $(8-2) + (\frac{3}{4} - \frac{1}{4}) = 6 + \frac{2}{4} = 6\frac{1}{2}$.
- Choice B is correct.** (5.NBT.A.2) When multiplying by 1000, append three zeros: $3 \times 1000 = 3000$.
- Choice B is correct.** (5.NBT.A.2) Simplify $\frac{8}{12} = \frac{2}{3}$. Then $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$.
- Choice C is correct.** (5.MD.C.5) The base layer has $5 \times 3 = 15$ square units. Divide the volume by the base area: $30 \div 15 = 2$, so the height is 2 feet.
- Choice D is correct.** (5.NF.B.5b) Convert to improper fractions: $4\frac{1}{3} = \frac{13}{3}$ and $1\frac{1}{2} = \frac{3}{2}$. Then $\frac{13}{3} \times \frac{3}{2} = \frac{13}{2} = 6\frac{1}{2}$.
- Choice B is correct.** (5.NBT.A.2) $0.023 \times 100 = 2.3$ (move decimal 2 places right).
- Choice A is correct.** (5.NBT.A.2) LCD of 6, 4, and 3 is 12. $\frac{1}{6} = \frac{2}{12}$, $\frac{1}{4} = \frac{3}{12}$, $\frac{1}{3} = \frac{4}{12}$.
- Choice B is correct.** (5.OA.B.3) Pattern A: 5, 7, 9, 11. Pattern B: 3, 7, 11, 15. At step 2, both equal 7.
- The correct answer is 11.** (5.OA.A.1) The parentheses give $15 + 9 = 24$. Then $24 \div 4 = 6$, and the remaining steps are $6 - 2 = 4$ and $4 + 7 = 11$.
- Choice C is correct.** (5.OA.A.1) First cyclist's total: $15.5 + 8.25 = 23.75$ km. Second cyclist's total: $9.75 + 12 = 21.75$ km. The first cyclist traveled $23.75 - 21.75 = 2$ km farther.
- Choice C is correct.** (5.G.B.3) Shape C is a rhombus. It has two pairs of parallel sides, all sides the same length, and no right angles.
- Choice A is correct.** (5.NF.B.7c) One tenth of the rectangle is split into 2 equal smaller parts. That makes each small part $\frac{1}{10} \div 2 = \frac{1}{20}$ of the whole.
- Choice A is correct.** (5.G.A.2) Choice A has vertices forming a rectangle: opposite sides are parallel and equal, and all angles are right angles. The width is $3 - 1 = 2$ units and the height is $5 - 1 = 4$ units.
- Choices A, B are correct.** (5.NBT.A.2) $3,000 \div 100$ and $300 \div 10$ both equal 30. C equals 300, and D equals 3.
- Choice D is correct.** (5.NF.B.7c) Start with one unit fraction, $\frac{1}{5}$, and share it into 6 equal parts. Each part is $\frac{1}{5} \div 6 = \frac{1}{30}$ of the whole.
- Choice D is correct.** (5.MD.C.3b) Cubic units measure volume, which is the amount of 3D space a solid figure occupies.
- Choice C is correct.** (5.G.B.4) An equilateral triangle has all angles equal to 60 degrees (acute). It cannot be obtuse. All other pairs are possible.
- Choice A is correct.** (5.NBT.B.5) $19 \times 22 = 19 \times (20 + 2) = (19 \times 20) + (19 \times 2) = 380 + 38 = 418$. Kai's work and total are correct.
- The correct answer is $5 \div \frac{1}{4} = n$.** (5.NF.B.7c) The total is 5 cups and each serving is one fourth cup, so divide total by serving size.
- Choice A is correct.** (5.NF.B.7c) The grid shows $\frac{3}{9}$ shaded. This simplifies to $\frac{1}{3}$ by dividing the numerator and denominator by 3.
- Choice D is correct.** (5.NBT.B.7) Line up decimal points and subtract place by place. Add: $7.56 + 4.29 = 11.85$. This confirms the answer.



Math Athlete, Listen Up!

◇ 8 practice tests done. That's serious training. Your math muscles are strong, your endurance is high, and your reflexes (recognizing problem types) are quick. You're in great shape for the big test. ◇

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- **Speed:** SHARP! You move efficiently from question to question.
- **Recovery:** GREAT! You bounce back fast from tough questions.

Trainer's tip: on test day, hydrate, breathe deeply, and warm up with the easier questions first. Build your rhythm. Your training will carry you the rest of the way.

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 Trainer (You're In Great Shape)

$45 \div 5 = ?$

PRACTICE TODAY.

$\frac{3}{5} + \frac{1}{10} = ?$



ACHIEVE TOMORROW!



$3^2 + 4^2 = 25$

This book includes **8** full-length **Grade 5** math practice tests to help students master essential skills, build confidence, and achieve success. Each test is carefully designed to reflect real math standards and cover a variety of question types with detailed answer explanations.

$7x - 4 = 17$

$1\frac{1}{2} + 2\frac{1}{3} = ?$

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Detailed answer explanations help students understand and learn.



BUILD CONFIDENCE & SKILLS

Strengthens problem-solving abilities and reinforces key math concepts.



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Identify strengths and focus on areas that need improvement.



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