

8

FULL-LENGTH

Washington

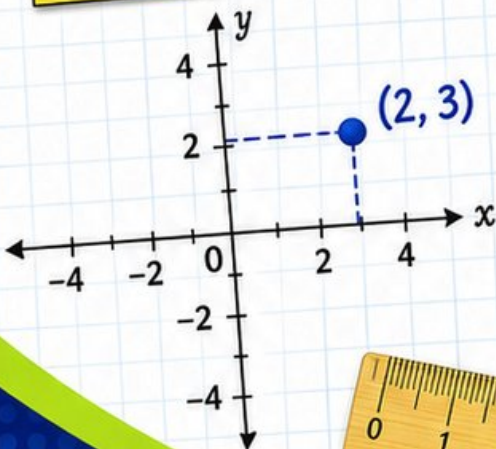
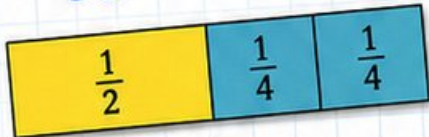
Smarter Balanced

GRADE 5

MATH PRACTICE TESTS

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

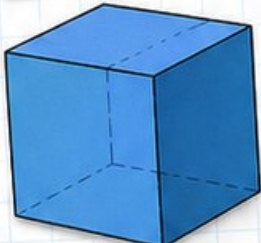
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

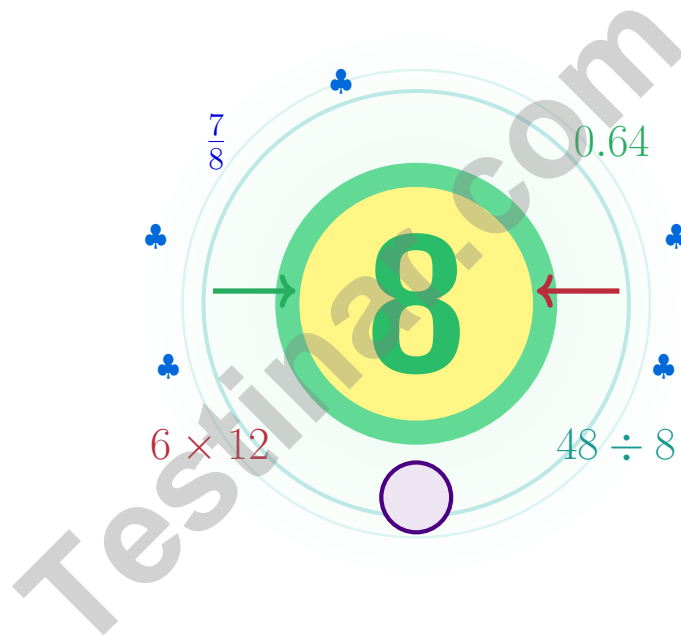
$$7 \times (12 - 5) = 49$$

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 Washington Smarter Balanced Grade 5 Math Practice Tests

Eight full tests woven into one calm, steady practice path



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

Jay Daie and Reza Nazari



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Washington Grade 5: Practice Path Briefing

A eight-step adventure for Washington Grade 5 thinkers

Just for Washington Grade 5 Trail Specialists

This practice book is your steady companion for eight tests, not a place to be perfect. Math is like a Mount Rainier trail – it rises steadily, rewards patience, and never asks you to rush.

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.

Notice

Notice the numbers, units, and any tricky words.

Sketch

Sketch a picture, table, or quick number line.

Confirm

Confirm your answer with an estimate or check.

A strong habit for Washington 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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Your Step-by-Step Plan

A simple routine that turns practice into progress

Step 1: Plan

Plan a quiet hour for one full test.
Spend a few minutes waking up your memory before the test begins.

Step 2: Practice

Take the test with calm focus.
Work in a calm spot and focus on careful thinking before speed.

Step 3: Inspect

Inspect every answer like a careful builder.
Circle missed questions and notice which topics keep showing up.

Step 4: Adjust

Adjust what needs adjusting for the next test.
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

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WEIGHT AND MASS

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TIME

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) How many times greater is 4000 than 4?

A. 10 times

C. 1000 times

B. 100 times

D. 10000 times

2) Pattern A: 0, 2, 4, 6, 8. Pattern B: 0, 4, 8, 12, 16. For the nonzero matching terms, each B value is how many times the corresponding A value?

Record your answer in the space provided.

3) Write a division equation for: 7 wholes split into half-size pieces.

Record your answer in the space provided.

4) An athlete runs 1,500 meters in a race. How many kilometers is that?

A. 0.15 km

C. 15 km

B. 1.5 km

D. 150 km



- 5) The model shows $\frac{1}{4}$ of a whole split into 4 equal parts. What fraction of the whole is each small part?

$\frac{1}{4}$ split into 4



1 whole split into 4 equal parts

- A. $\frac{1}{4}$
 C. $\frac{1}{16}$
 B. $\frac{1}{8}$
 D. $\frac{1}{2}$
- 6) Find the missing minuend in simplest form: $\square - \frac{1}{4} = \frac{7}{12}$
- A. $\frac{9}{12}$
 C. $\frac{5}{6}$
 B. $\frac{8}{12}$
 D. $\frac{11}{12}$
- 7) What number belongs in the blank so the equation is true?
- $$(\square + 2) \times 3 = 15$$
- A. 2
 C. 5
 B. 3
 D. 6
- 8) Pattern table shows input-output pairs: (1, 7), (2, 14), (3, 21), (4, 28). Which rule applies?
- A. Add 6 to the input.
 C. Multiply the input by itself, then add 6.
 B. Multiply the input by 7.
 D. Multiply the input by 5, then add 2.



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- 1) How many cups equal 24 fluid ounces?

$$\boxed{24 \text{ fl oz}} \xrightarrow{\div 8} ? \text{ cups}$$

(since 1 cup = 8 fl oz)

- A. 3 cups
- B. 4 cups
- C. 2 cups
- D. 6 cups
- 2) Error Check: Juan found the next number in pattern 2, 5, 10, 17, 26 by adding 5. Is this correct?
- A. Yes, the pattern is add 5
- B. No, the differences increase: add 3, then 5, then 7, then 9
- C. No, the pattern multiplies by 2
- D. No, the pattern is subtract 1
- 3) A rectangular prism has volume 144 cm^3 , length 12 cm, and width 3 cm. What is the height?

- A. 3 cm
- B. 4 cm
- C. 5 cm
- D. 6 cm



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1) What is 4.7×10 ?

A. 0.47

C. 47

B. 4.7

D. 470

2) Add three fractions: $\frac{1}{2} + \frac{1}{3} + \frac{1}{6}$

A. $\frac{3}{11}$

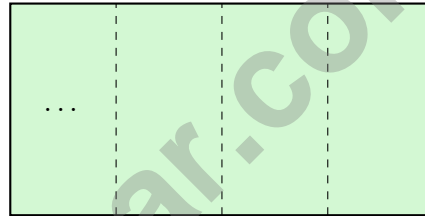
C. $\frac{5}{6}$

B. 1 whole

D. $\frac{3}{6}$

3) A garden area of 1,632 square feet is divided into plots of 24 square feet each. How many plots are created?

Garden: 1,632 sq ft



Each plot: 24 sq ft

A. 66

C. 68

B. 67

D. 69

4) When a whole number is divided by 10^3 , how many places does the decimal point move and in which direction?

A. 3 places to the left

C. 2 places to the left

B. 3 places to the right

D. 1 place to the left



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



1) Which fraction is equivalent to $\frac{1}{4}$ with denominator 12?

- A. $\frac{1}{12}$
 B. $\frac{3}{12}$

- C. $\frac{4}{12}$
 D. $\frac{6}{12}$

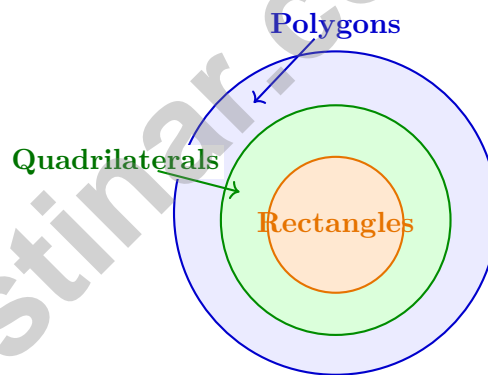
2) A classroom project requires 15 feet of ribbon. The teacher has 3 yards and 1 foot of ribbon. How much more ribbon is needed in feet?

Use: 1 yard = 3 feet

- A. 3 feet
 B. 5 feet

- C. 6 feet
 D. 10 feet

3) A Venn diagram has a large circle for polygons, a smaller circle for quadrilaterals inside it, and a smaller circle for rectangles inside the quadrilaterals circle. Where should a square be placed?



- A. Inside polygons only
 B. Inside all three circles

- C. Outside all three circles
 D. Inside quadrilaterals only

4) A triangle has side lengths 6 cm, 6 cm, and 6 cm. Each angle measures 60° . Which classification describes the triangle by both side lengths and angle measures?

- A. Equilateral and obtuse
 B. Isosceles and right

- C. Scalene and acute
 D. Equilateral and acute



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 C is correct.** **(5.NBT.A.2)** $4000 \div 4 = 1000$. So 4000 is 1000 times greater than 4.
- 2) **The correct answer is 2.** **(5.NBT.A.2)** Compare: $4 = 2 \times 2$, $8 = 2 \times 4$, etc. Each B term is 2 times its A term.
- 3) **The correct answer is $7 \div \frac{1}{2} = 14$.** **(5.OA.B.3)** We are counting how many halves fit in 7 wholes, so $7 \div \frac{1}{2} = 14$. Accept an equivalent division equation or the final value.
- 4) **Choice B is correct.** **(5.NF.B.7c)** $1 \text{ km} = 1,000 \text{ m}$. Divide: $1500 \div 1000 = 1.5 \text{ km}$.
- 5) **Choice C is correct.** **(5.MD.A.1)** Start with one unit fraction, $\frac{1}{4}$, and share it into 4 equal parts. Each part is $\frac{1}{4} \div 4 = \frac{1}{16}$ of the whole.
- 6) **Choice C is correct.** **(5.NF.A.2)** $\frac{1}{4} = \frac{3}{12}$. If $x - \frac{3}{12} = \frac{7}{12}$, then $x = \frac{10}{12} = \frac{5}{6}$.
- 7) **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.
- 8) **Choice B is correct.** **(5.G.A.2)** Compare each pair: $1 \times 7 = 7$, $2 \times 7 = 14$, $3 \times 7 = 21$, and $4 \times 7 = 28$.
- 9) **Choice A is correct.** **(5.NF.A.2)** Common denominator 6: $\frac{1}{6} + \frac{1}{3} = \frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$ cup.
- 10) **Choice D is correct.** **(5.NBT.B.7)** Align decimals: $3.40 + 0.27$. Hundredths: $0 + 7 = 7$; tenths: $4 + 2 = 6$; ones: $3 + 0 = 3$. Sum is 3.67.
- 11) **Choice B is correct.** **(5.NBT.B.7)** The phrase “the sum of a number and six” means group $3 + 6$. “Four times” means multiply that entire group by 4.
- 12) **Choice C is correct.** **(5.NBT.A.4)** To round 3.765 to the nearest hundredth, look at the thousandths digit. It is 5, so the hundredths digit rounds up from 6 to 7, giving 3.77 m.
- 13) **Choice D is correct.** **(5.OA.A.1)** Each $(4 + 3)$ equals 7, so $(4 + 3) \times (4 + 3) = 49$. Then $5 \times 49 = 245$, $245 \div 7 = 35$, and $35 + 2 = 37$.
- 14) **Choice D is correct.** **(5.OA.A.1)** The two sides with tick marks are equal, making this an isosceles triangle.
- 15) **The correct answer is 39.2.** **(5.MD.C.5)** Choose the operation from the story, then keep the unit with the answer. $5.6 \times 7 = 39.2 \text{ km}$. This confirms the answer.
- 16) **Choice C is correct.** **(5.MD.C.5)** $15 \times 10^3 = 15 \times 1000 = 15000$ meters.
- 17) **Choice A is correct.** **(5.NBT.A.2)** Line up decimal points and subtract place by place. $18.72 - 9.48 = 9.24$ inches. This confirms the answer.
- 18) **Choice B is correct.** **(5.NBT.B.5)** The model splits 43 into $40 + 3$ and splits 20 into $10 + 10$. Add the partial products: $400 + 30 + 400 + 30 = 860$.
- 19) **Choice A is correct.** **(5.MD.A.1)** Since 1 pound = 16 ounces, multiply 7 by 16: $7 \times 16 = 112$ ounces.
- 20) **The correct answer is 4.** **(5.MD.A.1)** Reading after the decimal: 1 is tenths, 8 is hundredths, 4 is thousandths.
- 21) **Choices A, B are correct.** **(5.NBT.A.1)** Add the four lengths to get 4 inches in all. The value 1 inch appears twice, more than any other value; C and D do not match the line plot.
- 22) **Choice C is correct.** **(5.NBT.A.2)** Making one-tenth (dividing by 10): $2.4 \div 10 = 0.24$ cups of flour.
- 23) **Choice C is correct.** **(5.G.A.2)** Following the pattern: point 1 is (1, 2), point 2 is (3, 5), point 3 is (5, 8), point 4 is (7, 11).
- 24) **Choice A is correct.** **(5.NF.B.7c)** $\frac{1}{10} \div 3 = \frac{1}{10} \times \frac{1}{3} = \frac{1}{30}$.
- 25) **Choice B is correct.** **(5.NF.A.2)** $4\frac{11}{12} \approx 5$. So $10 - 4\frac{11}{12} \approx 10 - 5 = 5$.
- 26) **Choice C is correct.** **(5.NF.A.2)** The total time is 45 minutes + 1 hour 20 minutes + 25 minutes = 2 hours 30 minutes. Add 2 hours 30 minutes to 7:00 AM to get 9:30 AM.
- 27) **Choice B is correct.** **(5.NF.B.5a)** $10 \times \frac{6}{5} = 12$ units. Since $\frac{6}{5} > 1$, the scaled length is larger than 10 units.
- 28) **Choice C is correct.** **(5.MD.C.5a)** Volume of prism: $16 \times 12 \times 9 = 1728$ cubic feet. Number of 4-cubic-foot units: $1728 \div 4 = 432$ units.
- 29) **Choice D is correct.** **(5.OA.A.2)** The tree shows 15 and 3 being added inside $(15 + 3)$. The multiplication is by 2, so there is no product of 15 and 3 in this expression.
- 30) **Choice A is correct.** **(5.NBT.A.3b)** In the tenths place: 4 tenths $<$ 5 tenths, so $0.45 < 0.54$.



Case Closed: Success Ahead

Greetings, Math Detective!

◇ Outstanding investigation! You've cracked the code on 8 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 8 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

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

Detective wisdom: the best investigators take notes about their methods so they can solve similar cases faster in the future. Your brain has been doing exactly that throughout these 8 tests, storing successful strategies in your mental filing cabinet. On test day, you'll be able to retrieve those proven methods instantly!

If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

Jay Daie

Your Math Detective Coach

$45 \div 5 = ?$

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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IMPROVE & TRACK PROGRESS

Identify strengths and focus on areas that need improvement.



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