

FULL-LENGTH

8

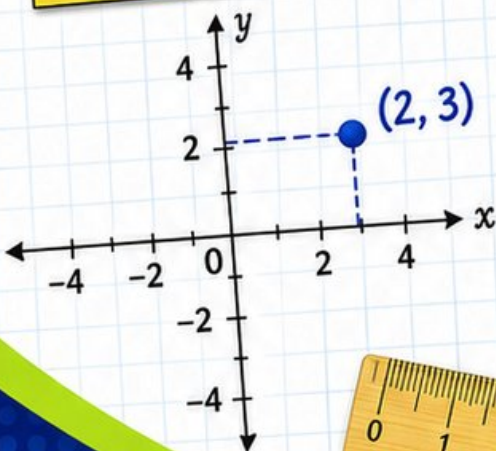
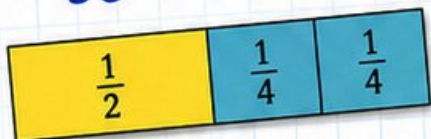
Idaho  
ISAT

GRADE 5

MATH PRACTICE TESTS

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

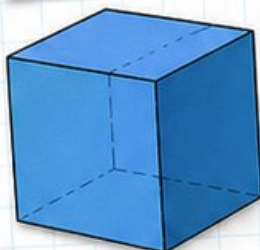
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

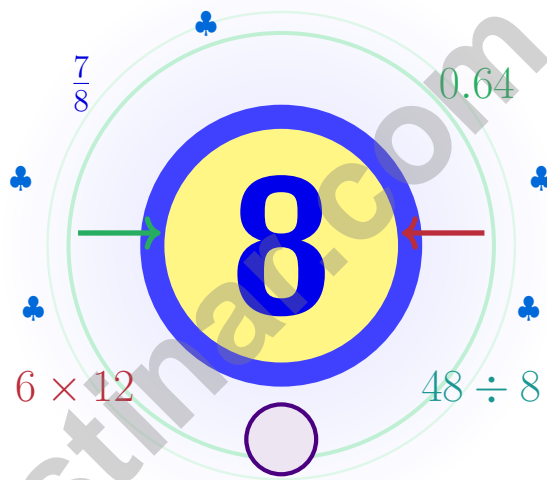
$$7 \times (12 - 5) = 49$$

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 Idaho ISAT Grade 5 Math Practice Tests

*Seven steps, seven growth checks, one calm routine*



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

**Jay Daie and Reza Nazari**



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# Idaho, Steady Practice Starts Here

Eight full tests, seven lessons, one stronger mathematician

## To Every Math Brain in Idaho

This practice book is your steady companion for eight tests, not a place to be perfect. Math is like a gem in raw rock – it shines once you take the time to chip carefully and look closely.

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 Idaho 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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# Use This Book Like a Trail Guide

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.



# Table of Contents

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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)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

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

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

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

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

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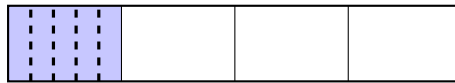
5) Add:  $\frac{4}{5} + \frac{1}{2}$

- A.  $\frac{5}{7}$   
 B.  $\frac{8}{10}$

- C.  $\frac{5}{10}$   
 D.  $\frac{13}{10}$

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

$\frac{1}{4}$  split into 5



1 whole split into 4 equal parts

- A.  $\frac{1}{4}$   
 B.  $\frac{1}{5}$

- C.  $\frac{1}{20}$   
 D.  $\frac{1}{9}$

7) A fabric store recorded sales: Monday \$12.34, Tuesday \$15.67, Wednesday \$18.92. What is the 3-day total?

- A. \$46.83  
 B. \$47.93

- C. \$47.03  
 D. \$46.93



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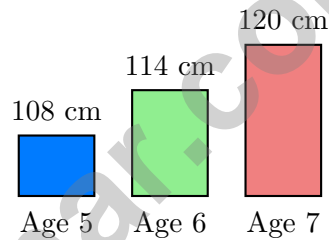
1) Box A measures 8 feet by 5 feet by 4 feet. Box B measures 7 feet by 5 feet by 4 feet. Which has the greater volume, and by how much?

- A. Box A by 30 cubic feet  
 B. Box B by 25 cubic feet  
 C. They have the same volume.  
 D. Box A by 20 cubic feet

2) Compare: Which is greater,  $\frac{5}{6}$  or  $\frac{3}{4}$ ? By how much?

- A.  $\frac{5}{6}$  by  $\frac{1}{12}$   
 B.  $\frac{3}{4}$  by  $\frac{1}{12}$   
 C. Equal  
 D.  $\frac{5}{6}$  by  $\frac{1}{2}$

3) A child's growth is tracked: Age 5: 108 cm Age 6: 114 cm Age 7: 120 cm  
How much did the child grow from age 5 to age 7 in centimeters?



- A. 6 cm  
 B. 20 cm  
 C. 18 cm  
 D. 12 cm

4) A rectangular box has 8 unit cubes on its bottom layer. The box is 4 cubes tall. How many unit cubes fill the entire box?

- A. 12 unit cubes  
 B. 32 unit cubes  
 C. 24 unit cubes  
 D. 36 unit cubes



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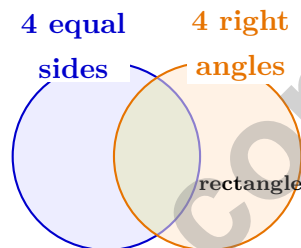
1 day = 24 hours (hr)    1 year = 52 weeks



1) A water tank graph records filling. The x-axis shows minutes, and the y-axis shows gallons in the tank. What does the point (5, 40) mean?

- A. gallons in the tank is 40 when minutes is 5
- B. minutes is 40 when gallons in the tank is 5
- C. minutes and gallons in the tank are both 45
- D. gallons in the tank is 5 when minutes is 40

2) A Venn diagram has circles for “4 equal sides” and “4 right angles.” A rectangle that is not a square belongs where?



- A. In “4 right angles” only
- B. In “4 equal sides” only
- C. In the intersection
- D. Outside both circles
- 3) An athlete runs 1,500 meters in a race. How many kilometers is that?
- A. 0.15 km
- B. 1.5 km
- C. 15 km
- D. 150 km
- 4) Which product has the same number of zeros as the product  $60 \times 500$ ?
- A.  $30 \times 200$
- B.  $6 \times 500$
- C.  $40 \times 800$
- D.  $3,000 \times 10$



## Grade 5 Mathematics Reference Materials

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## 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.NF.A.2)** The list for 10 reaches 90, and the list for 9 also reaches 90. No smaller number appears in both lists, so the LCD is 90.
- 2) **Choice B is correct.** **(5.NF.B.5)** When you multiply by a fraction less than 1, the result is smaller. Since  $\frac{2}{3} < 1$ , we have  $8 \times \frac{2}{3} < 8$ . Therefore, 8 is larger.
- 3) **Choice B is correct.** **(5.NF.B.6)** The unit fraction is the amount being shared, so divide  $\frac{1}{9}$  by 3. The equation is  $\frac{1}{9} \div 3 = n$ .
- 4) **The correct answer is 9.1.** **(5.NBT.A.4)** Hundredths digit is 7 (with 5 in thousandths). Since  $7 \geq 5$ , round tenths up:  $9.0 \rightarrow 9.1$ .
- 5) **Choice D is correct.** **(5.NBT.A.4)**  $\text{LCM}(5,2) = 10$ .  $\frac{4}{5} = \frac{8}{10}$  and  $\frac{1}{2} = \frac{5}{10}$ .  $\frac{8}{10} + \frac{5}{10} = \frac{13}{10} = 1\frac{3}{10}$ .
- 6) **Choice C is correct.** **(5.NF.B.6)** 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.
- 7) **Choice D is correct.** **(5.NBT.B.7)** Add:  $\$12.34 + \$15.67 = \$28.01$ ; then  $\$28.01 + \$18.92 = \$46.93$ .
- 8) **Choice D is correct.** **(5.NBT.B.7)** The four vertices form a quadrilateral with four right angles. The width is 4 units and the height is 3 units. Since the sides are not all equal, it is a rectangle, not a square.
- 9) **The correct answer is (3, 9).** **(5.G.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.
- 10) **Choice C is correct.** **(5.NF.B.6)** Each pound makes 4 quarter-pound pizzas.  $10 \div \frac{1}{4} = 10 \times 4 = 40$  mini pizzas.
- 11) **Choice C is correct.** **(5.MD.C.4)** Container volume:  $24 \times 8 \times 8 = 1536$  cubic feet. Items that fit:  $1536 \div 64 = 24$  items.
- 12) **Choice A is correct.** **(5.OA.A.2)** The first product,  $6 \times 4$ , shows the cost of the red pens. The second product,  $6 \times 3$ , shows the cost of the blue pens. Adding them gives the total cost.
- 13) **The correct answer is 42000000.** **(5.NBT.A.2)** Multiplying by a power of 10 shifts the value to a larger place. Attach six zeros to 42: 42,000,000. This confirms the answer.
- 14) **Choice A is correct.** **(5.NBT.A.2)**  $V = 15 \times 10 \times 8 = 1200 \text{ cm}^3$ .
- 15) **The correct answer is (4, 20).** **(5.MD.C.4)** The 4th term of Pattern A is 4, and the 4th term of Pattern B is 20. So the ordered pair is (4, 20).
- 16) **Choice A is correct.** **(5.G.A.2)**  $1,368 \approx 1,400$  and  $34 \approx 35$ . So  $1,368 \div 34$  rounds to  $1,400 \div 35$ .
- 17) **Choice D is correct.** **(5.OA.A.2)** Area of a rectangle is length times width. Here the length is  $(4 + 3)$  and the width is 5, so the area expression is  $(4 + 3) \times 5$ .
- 18) **Choice A is correct.** **(5.NBT.B.7)**  $2.50 - 1.08 = 1.42$  liters. Annex zero to 2.5.
- 19) **Choice D is correct.** **(5.OA.A.1)** Solve each grouped part carefully:  $9 \times 2 = 18$ , and inside the bracket  $3 + 2 = 5$ , so  $15 - 5 = 10$ . Add the two results:  $18 + 10 = 28$ .
- 20) **Choice D is correct.** **(5.OA.A.1)** Multiply the numerators and denominators:  $\frac{2}{7} \times \frac{1}{3} = \frac{2 \times 1}{7 \times 3} = \frac{2}{21}$ .
- 21) **Choices A, B are correct.** **(5.NF.B.6)** C is too small because 1 gallon is 16 cups. D is not a yard conversion because 1 yard is 3 feet.
- 22) **Choice D is correct.** **(5.NBT.A.2)** Dividing by 100 moves the decimal 2 places left:  $87.6 \rightarrow 8.76 \rightarrow 0.876$ .
- 23) **Choice B is correct.** **(5.NBT.A.2)** A gives  $1\frac{1}{2}$ , B gives  $13\frac{1}{2}$ , and C gives 18. The value  $13\frac{1}{2}$  is closest to 15, so B is correct.
- 24) **Choice C is correct.** **(5.NBT.B.5)** Multiply:  $225 \times 4 = (200 \times 4) + (20 \times 4) + (5 \times 4) = 800 + 80 + 20 = 900$ .
- 25) **Choice C is correct.** **(5.NBT.B.5)** The diagram separates the multiplication and division nicely:  $8 \times 5 = 40$  and  $12 \div 3 = 4$ . Then  $40 - 4 + 7 = 43$ .
- 26) **Choice B is correct.** **(5.G.A.2)** In an ordered pair  $(x, y)$ , the second number is the y-coordinate. For (4, 9), the y-coordinate is 9.
- 27) **Choice A is correct.** **(5.NBT.A.1)** Converting fractions to decimals:  $4 + 0.2 + 0.05 + 0.008 = 4.258$ .
- 28) **The correct answer is 26.** **(5.OA.B.3)** Each term increases by 3. Starting at 5: term 8 is  $5 + (8 - 1) \times 3 = 5 + 21 = 26$ .



### Notes From the Math Gardener

#### Dear Math Gardener,

◇ Look at how much you've grown! 8 practice tests is like 8 seasons of planting and harvesting. Each problem was a seed, each effort was water, and each "aha!" was sunshine. Your math garden is strong now—and it shows. ◇

★ **What gardeners know:** growth is steady, not sudden. You don't see roots growing, but they are. You don't always feel yourself getting smarter, but you are. The proof is in the questions you can solve today that felt impossible 8 tests ago. ★

#### Garden Inspection Report

- **Roots (foundation):** DEEP! Your basic skills are solid.
- **Stems (structure):** STURDY! Your problem-solving steps hold up.
- **Leaves (skills):** LUSH! You have many strategies to draw on.
- **Flowers (confidence):** BLOOMING! You believe in your skills.

**Gardener's wisdom:** keep watering your math garden long after the test. Every habit you built (read carefully, plan, check) will grow with you for years. The test is just one harvest. Your garden keeps growing.

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

**Jay Daie**

Your Math Gardener (Keep Growing!)

$45 \div 5 = ?$

# 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.

$7x - 4 = 17$

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

## 8 FULL-LENGTH MATH PRACTICE TESTS



### REALISTIC PRACTICE

Tests mirror Grade 5 math standards and real assessment formats.



### ANSWER KEY INCLUDED

Detailed answer explanations help students understand and learn.



### BUILD CONFIDENCE & SKILLS

Strengthens problem-solving abilities and reinforces key math concepts.



### IMPROVE & TRACK PROGRESS

Identify strengths and focus on areas that need improvement.



### ACHIEVE SUCCESS

Boosts test readiness and helps students achieve their best results.

### COVERS ALL KEY GRADE 5 MATH TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis

...and More!



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for more Grade 5 math resources and practice materials!



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