

# 5

# FULL-LENGTH

# Idaho

# ISAT

## GRADE 5 MATH

### ★ PRACTICE TESTS ★



**5 FULL-LENGTH  
PRACTICE TESTS**



**COMPLETE  
STANDARDS  
REVIEW**



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

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



$$12 \times 3 = 36$$



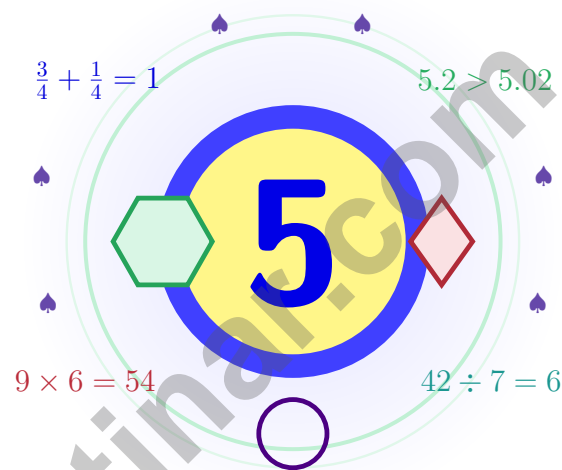
$$\frac{7}{10} = 0.7$$



**BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.**

# 5 Idaho ISAT Grade 5 Math Practice Tests

*Five checkpoints, five growth checks, one calm routine*



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

**Jay Daie and Reza Nazari**



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# Idaho Math Crew, Welcome to the Quest

Five checkpoints, five growth checks, one calm routine

## To the Grade 5 Problem Solver

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 is like a gem in raw rock – it shines once you take the time to chip carefully and look closely.

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.

### Notice

Read closely and spot what the problem is really asking.

### Try

Pick a plan and work through it one step at a time.

### Level Up

Use every correction like a clue for what to practice next.

**A strong quest habit for Idaho:** 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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# How to Get the Most Out

A simple routine that turns five tests into real growth

## Step 1: Power Up

**Warm up with the quick review.**  
Wake up important ideas before you begin so your brain is ready to use them.

## Step 2: Take the Checkpoint

**Take one full practice test.**  
Find a quiet space, work carefully, and let accuracy matter more than speed.

## Step 3: Decode Mistakes

**Check your answers honestly.**  
Circle missed questions and look for patterns. Which skill or habit needs another try?

## Step 4: Bring the Lesson Forward

**Study, fix, and retry.**  
Read the explanation, repair the work, and carry that lesson into the next test.

## A Five-Week Idaho Quest Map

Week	Mission Focus
Week 1	Take Test 1 and study your stone – look at every face before polishing.
Week 2	Take Test 2 and notice one habit that grew sharper.
Week 3	Take Test 3 and put extra polish on fractions, decimals, and conversions.
Week 4	Take Test 4 and slow down on multi-step problems.
Week 5	Take Test 5 and shine bright with careful, calm, confident work.



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## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

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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.)

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### TIME

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



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1) Compare the roundings: 4.251 and 4.259 to the nearest hundredth.

- A. Both round to 4.25                       C. 4.251 → 4.25 and 4.259 → 4.26  
 B. Both round to 4.26                       D. 4.251 → 4.26 and 4.259 → 4.25

2) Expression table: complete the missing value when 4.5 is multiplied by different powers of 10.

Expression	Value
$4.5 \times 10$	45
$4.5 \times 100$	?
$4.5 \times 1000$	4500

- A. 4.5     C. 450  
 B. 45     D. 4500
- 3) A rectangular prism measures 5 cm by 4 cm by 9 cm. What is its volume?
- A. 160 cm<sup>3</sup>                                       C. 200 cm<sup>3</sup>  
 B. 180 cm<sup>3</sup>                                       D. 220 cm<sup>3</sup>
- 4) A student claims  $25 \times 100 = 2500$ . Is the product correct?
- A. Yes; the product is correct for this whole-number problem       C. No; zeros go on the left, not the right  
 B. No; the product should be 250                       D. No; the product should be 25,000
- 5) Find the sum:  $1\frac{3}{8} + 2\frac{1}{4}$ .

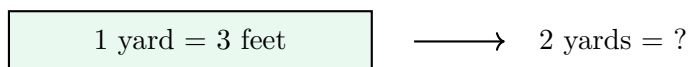
*Record your answer in the space provided.*



6) How many times larger is  $10^5$  than  $10^3$ ?

- A. 2 times                       C. 100 times  
 B. 10 times                       D. 1000 times

7) Use the diagram to find how many feet are in 2 yards.



- A. 2 feet                       C. 5 feet  
 B. 4 feet                       D. 6 feet
- 8) Pattern A: 0, 3, 6, 9, ... Pattern B: 0, 9, 18, 27, ... For the nonzero terms, each B value is how many times the matching A value?

*Record your answer in the space provided.*

9) Which shows a correct way to multiply  $\frac{1}{3} \times \frac{2}{5}$ ?

- A.  $\frac{1+2}{3+5} = \frac{3}{8}$                        C.  $\frac{1 \times 2}{3 \times 5} = \frac{2}{15}$   
 B.  $\frac{1 \times 2}{3+5} = \frac{2}{8}$                        D.  $\frac{1+2}{3 \times 5} = \frac{3}{15}$

10) Two gardens are rectangular. Garden A is  $\frac{1}{2}$  acre by  $\frac{2}{3}$  acre. Garden B is  $\frac{3}{4}$  acre by  $\frac{1}{2}$  acre. Which garden has more area?

- A. Garden A                       C. They are equal  
 B. Garden B                       D. Cannot determine



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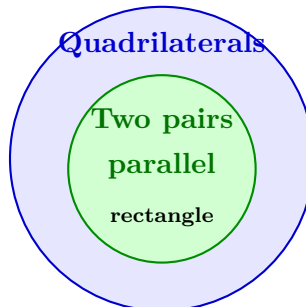
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- 1) From the pattern “add 3, start at 2”, list ordered pairs (index, value) for indices 1–4:
- A. (1, 2), (2, 5), (3, 8), (4, 11)
  - B. (1, 5), (2, 8), (3, 11), (4, 14)
  - C. (2, 1), (5, 2), (8, 3), (11, 4)
  - D. (1, 3), (2, 6), (3, 9), (4, 12)
- 2) A jeweler divides 26.3 ounces of gold equally among 100 customers. How much does each customer get?
- A. 2630 oz
  - B. 263 oz
  - C. 0.263 oz
  - D. 2.63 oz
- 3) Why does  $5.00 - 1.23$  require regrouping?
- A. Regrouping is not needed because the ones are large enough.
  - B. The tenths and hundredths in 5.00 must be regrouped.
  - C. No, the difference is 3.87
  - D. Subtracting from left to right avoids regrouping.
- 4) A Venn diagram has a large circle for quadrilaterals and a smaller circle inside it for figures with two pairs of parallel sides. A rectangle is placed inside the smaller circle. Why?



- A. It has exactly 3 sides.
- B. It is not a polygon.
- C. It has no right angles.
- D. It has 4 sides and two pairs of parallel sides.



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- 1) A bookstore sells  $\frac{1}{5}$  of its book inventory on Monday and  $\frac{2}{10}$  on Tuesday. What fraction of the inventory is sold in all?

Mon	Tue			

- A.  $\frac{3}{10}$                        C.  $\frac{4}{10}$   
 B.  $\frac{3}{15}$                        D.  $\frac{5}{10}$
- 2) A swimming pool is shaped like a rectangular prism with volume  $1000 \text{ m}^3$ , length 20 m, and width 10 m. How deep is the pool?

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



## Grade 5 Mathematics Reference Materials

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1) Miguel ran  $2\frac{3}{4}$  mi on Monday and  $3\frac{1}{4}$  mi on Tuesday. Total?

A. 5 mi

C. 6 mi

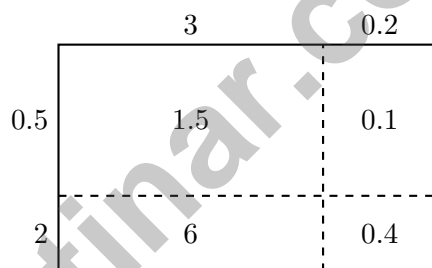
B.  $5\frac{1}{2}$  mi

D.  $6\frac{1}{2}$  mi

2) Find:  $0.92 + 0.08$ .

*Record your answer in the space provided.*

3) An area model shows  $3.2 \times 2.5$ . Break it into whole and decimal parts and find the total.



A. 7.5

C. 8.5

B. 8

D. 9

4) Each number after the first two is the sum of the two numbers before it. Pattern: 1, 1, 2, 3, 5, 8, 13, ... What is the next number?

A. 21

C. 24

B. 20

D. 26



## 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.NBT.A.4) For 4.251: thousandths=1 < 5, keep hundredths 5 → 4.25. For 4.259: thousandths=9 ≥ 5, round hundredths 5 up to 6 → 4.26.
- Choice C is correct.** (5.NBT.A.2)  $4.5 \times 100 = 450$  (move decimal 2 places right).
- Choice B is correct.** (5.MD.C.4)  $5 \times 4 \times 9 = 20 \times 9 = 180 \text{ cm}^3$ .
- Choice A is correct.** (5.NBT.A.2) The product is correct:  $25 \times 100 = 2500$ . A more precise way to say the rule is that multiplying by 100 shifts the digits two places left in the place-value chart.
- The correct answer is  $3\frac{5}{8}$ .** (5.NF.A.1)  $1 + 2 = 3$ .  $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$ . Total:  $3\frac{5}{8}$ .
- Choice C is correct.** (5.NBT.A.2)  $\frac{10^5}{10^3} = 10^2 = 100$  times larger.
- Choice D is correct.** (5.MD.A.1) Since 1 yard = 3 feet, multiply 2 by 3:  $2 \times 3 = 6$  feet.
- The correct answer is 3.** (5.G.A.2) For nonzero terms,  $9 \div 3 = 3$ ,  $18 \div 6 = 3$ , and  $27 \div 9 = 3$ .
- Choice C is correct.** (5.NF.B.6) To multiply fractions, multiply the numerators and multiply the denominators:  $\frac{1}{3} \times \frac{2}{5} = \frac{1 \times 2}{3 \times 5} = \frac{2}{15}$ .
- Choice B is correct.** (5.MD.C.5) Garden A:  $\frac{1}{2} \times \frac{2}{3} = \frac{2}{6} = \frac{1}{3}$  acre. Garden B:  $\frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$  acre. Since  $\frac{3}{8} > \frac{1}{3}$ , Garden B is larger.
- Choice A is correct.** (5.NF.A.2)  $\frac{1}{3} = \frac{3}{9}$ .  $\frac{7}{9} - \frac{3}{9} = \frac{4}{9}$  meter.
- Choice D is correct.** (5.NF.B.6)  $1\frac{1}{3} = \frac{4}{3}$  and  $1\frac{1}{2} = \frac{3}{2}$ . Multiply:  $\frac{4}{3} \times \frac{3}{2} = \frac{12}{6} = 2$ .
- Choice D is correct.** (5.G.B.4) An obtuse triangle has one angle greater than 90 degrees. Since 120 degrees is greater than 90 degrees, this is an obtuse triangle.
- Choice C is correct.** (5.MD.C.4) C is correct:  $6 \times 5 \times 4 = 120$  cubic units. A: volume is 60. B: volume uses cubic units. D: doubling one dimension doubles the volume.
- Choice C is correct.** (5.NBT.B.6)  $624 \div 24 = 26$ . Area model:  $624 = 24 \times 26$ . Check:  $24 \times 26 = 624$ .
- Choice C is correct.** (5.NF.A.1) Option C is a division problem, not an addition of fractions problem. Options A, B, and D all involve adding fractions with unlike denominators.
- The correct answer is 1.** (5.G.B.4) The description says exactly one pair of parallel sides, so the answer is 1 pair.
- The correct answer is 12.** (5.NBT.A.2) Dividing by 100 removes two zeros:  $1,200 \rightarrow 12$ .
- 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.
- Choice D is correct.** (5.NBT.B.5) Multiply:  $31 \times 7 = (30 \times 7) + (1 \times 7) = 210 + 7 = 217$ .
- Choices A, B are correct.** (5.NF.B.6) Taking one half of three fourths means multiply:  $\frac{1}{2} \cdot \frac{3}{4} = \frac{3}{8}$ . Choice C doubles instead of halves, and D reverses the scaling.
- Choice D is correct.** (5.G.A.2) Check: first coordinates 1, 2, 3, and 4 give second coordinates 1, 3, 5, and 7 when doubled and then reduced by 1.
- Choice C is correct.** (5.OA.B.3) Start with 2 and multiply by 5 each time. The terms are 2, 10, 50, 250, so the 4th term is 250.
- Choice B is correct.** (5.MD.C.4) The base area is  $20 \times 4 = 80$  square centimeters. Since  $400 \div 80 = 5$ , the height is 5 cm.
- Choice D is correct.** (5.NBT.A.3) 0.51 is only 0.01 away from 0.5, closer than the others.
- Choice C is correct.** (5.NF.A.2) Toys and games:  $\frac{2}{11} + \frac{3}{11} = \frac{5}{11}$ . Other:  $1 - \frac{5}{11} = \frac{6}{11}$ .
- Choice A is correct.** (5.G.A.2) The first coordinate, 50, matches the x-axis label: gallons used. The second coordinate, 400, matches the y-axis label: miles traveled. So the point means miles traveled is 400 when gallons used is 50.
- Choice A is correct.** (5.MD.C.5) Choose the operation from the story, then keep the unit with the answer. Multiply:  $2.4 \times 15 = 36$  cups. This confirms the answer.
- Choice C is correct.** (5.NBT.A.1) A digit in the tenths place ( $0.6 = \frac{6}{10}$ ) is 10 times greater than the same digit in the hundredths place ( $0.06 = \frac{6}{100}$ ).



## Hey there, Master Gamer!

★ Level mastery achieved! You've conquered five complete game worlds, defeating mathematical boss battles and collecting skill power-ups like a professional gamer! Each test level presented unique challenges and hidden obstacles, but you've learned the patterns, mastered the controls, and leveled up your abilities significantly. Your character stats are at maximum capacity! ★

◇ **Here's what elite gamers understand:** mastering difficult games requires repeated playthroughs, learning from defeats, and developing strategic thinking. They study level designs, practice timing, and memorize successful strategies. You've done exactly that through these five test levels! You've learned the mathematical game mechanics, and now you're ready for the championship tournament! ◇

### Character Stats Maxed Out

**Problem-Solving Power:** Leveled up to Expert tier through consistent training!

**Strategic Thinking:** Unlocked advanced tactical abilities through practice!

**Endurance Meter:** Can maintain focus through extended gaming sessions!

**Boss Battle Ready:** Prepared to defeat the final test day challenge!

**Gaming wisdom:** professional players stay calm during competitive matches because they've practiced under pressure. Test day is your championship match. When you encounter a challenging problem-boss, remember your five training sessions. You've defeated tougher enemies before. Use your best strategies, stay focused, and claim victory!

Want to share your gaming strategies or discuss a particularly clever solution combo? Send your achievements to [reza@testinar.com](mailto:reza@testinar.com). Let's celebrate your wins!

**Reza Nazari & Jay Daie**

Your Math Coaches for Showing Your Work

# 5 FULL-LENGTH TESTS. STRONG SKILLS. BRIGHTER RESULTS.



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!

## WHAT'S INSIDE:



### 5 FULL-LENGTH PRACTICE TESTS

Realistic tests that build familiarity, boost focus, and improve test readiness.



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Covers all essential Grade 5 math topics with clear explanations and examples.



### SKILL PRACTICE

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with consistent  
practice



**Improve Accuracy**  
and problem-  
solving skills



**Time Management**  
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