

# 7

# Idaho

# ISAT

## GRADE 5

# MATHEMATICS

## PRACTICE TESTS

✓  
PRACTICE  
PREPARE  
SUCCEED

★★★

Comprehensive Standards-Aligned  
Review for Strong Grade 5  
Math Performance



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

$$2.4 + 1.6 = 4.0$$

$$A = \frac{bh}{2}$$



**7 FULL-LENGTH  
PRACTICE TESTS**

Realistic style  
questions



**STANDARDS-  
ALIGNED**

Covers all Grade 5  
standards



**BUILD CONFIDENCE**

Target weak areas  
and improve  
performance



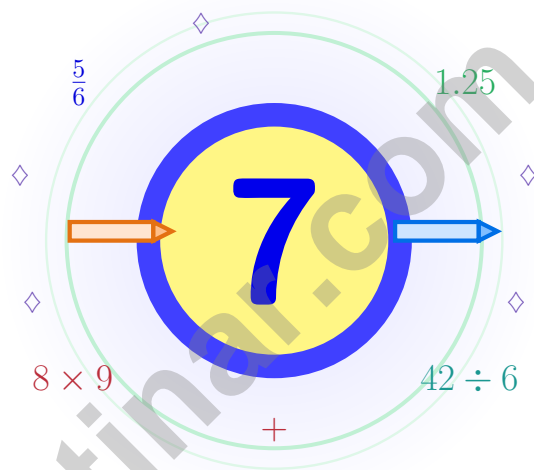
**ACHIEVE SUCCESS**

Develop skills,  
stay prepared,  
excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. **SUCCEED** FOREVER. ★

# 7 Idaho ISAT Grade 5 Math Practice Tests

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



Seven full tests, a concise 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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# Welcome to the Practice Path, Idaho

This book is here to help you practice, reflect, and rise across seven tests

## Trail Briefing for Idaho Grade 5 Math Crew

This practice book is your steady companion for seven 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 seven 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.

### Look

Look at the problem like a detective looks at a clue.

### Test

Test your idea with one careful step at a time.

### Grow

Grow stronger by reviewing exactly what tripped you up.

**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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# How to Use This Book

A simple routine that turns practice into progress

## Step 1: Read

**Read the quick review pages first.**  
Spend a few minutes waking up your memory before the test begins.

## Step 2: Try

**Try one full test with full attention.**  
Work in a calm spot and focus on careful thinking before speed.

## Step 3: Reflect

**Reflect on which skills want more sunlight.**  
Circle missed questions and notice which topics keep showing up.

## Step 4: Lift

**Lift those skills before the next test.**  
Read the explanation, repair the work, and bring that lesson into the next test.

## A Good 7-Week Idaho Rhythm

<b>Week 1</b>	Take Test 1 and study the stone.
<b>Week 2</b>	Take Test 2 and slow down on word problems.
<b>Week 3</b>	Take Test 3 and lift fraction and decimal work.
<b>Week 4</b>	Take Test 4 and pay close attention to labels and units.
<b>Week 5</b>	Take Test 5 and compare your habits with your first test.
<b>Week 6</b>	Take Test 6 and practice staying calm during tricky questions.
<b>Week 7</b>	Take Test 7 and shine bright with careful, confident work.



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## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

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

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)

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1 pound (lb) = 16 ounces (oz)

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### TIME

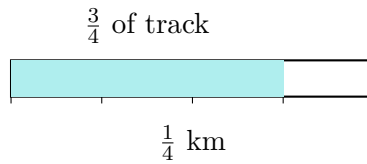
1 minute (min) = 60 seconds (sec)    1 week = 7 days

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1) A track is  $\frac{1}{4}$  kilometer long. If you run  $\frac{3}{4}$  of the track, how far do you run?



A.  $\frac{3}{16}$  km

C.  $\frac{1}{2}$  km

B.  $\frac{1}{4}$  km

D. 1 km

2) Compare:  $7 \times (40 - 10)$    $7 \times 40 - 7 \times 10$

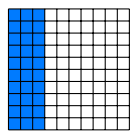
A.  $>$

C.  $=$

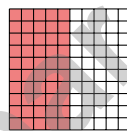
B.  $<$

D. Cannot tell

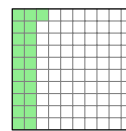
3) Model three decimals using grids:



Grid 1: 0.3



Grid 2: 0.5



Grid 3: 0.21

Order these from least to greatest.

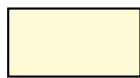
A. 0.21, 0.3, 0.5

C. 0.5, 0.3, 0.21

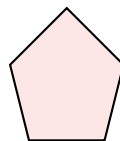
B. 0.3, 0.5, 0.21

D. 0.21, 0.5, 0.3

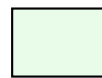
4) Which polygon is regular?



A



B



C



D

A. A

C. C

B. B

D. D



5) The output is 3 times the input, then 1 more. Find the ordered pair when the input is 0:

A. (0, 0)

C. (0, 3)

B. (0, 1)

D. (1, 0)

6) A model is made from a 7 m by 3 m by 4 m prism and a 5 m by 3 m by 2 m prism. The prisms do not overlap. Find the model's volume.

*Record your answer in the space provided.*

7) Add:  $\frac{7}{10} + \frac{1}{4}$

A.  $\frac{8}{14}$

C.  $\frac{19}{20}$

B.  $\frac{8}{10}$

D.  $\frac{18}{20}$



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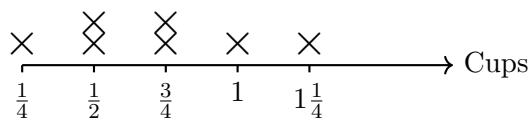
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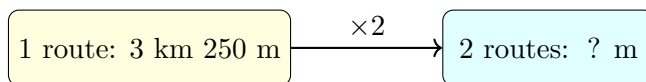


- 1) The line plot shows flour amounts, in cups, used in recipes:



What is the total amount of flour shown?

- A.  $3\frac{1}{2}$  cups  
 B.  $4\frac{3}{4}$  cups  
 C. 5 cups  
 D.  $5\frac{1}{2}$  cups
- 2) A store's scale shows a package weighing 4.237 pounds. Identify the digit in the thousandths place.
- A. 4  
 B. 2  
 C. 3  
 D. 7
- 3) A composite model building is made from two non-overlapping rectangular prisms. Prism A is 9 inches long, 4 inches wide, and 3 inches tall. Prism B is 6 inches long, 4 inches wide, and 5 inches tall. What is the total volume?
- A. 108 cubic inches  
 B. 228 cubic inches  
 C. 120 cubic inches  
 D. 264 cubic inches
- 4) Which statement correctly compares two multiplications?
- A.  $0.13 \times 100 > 0.13 \times 1000$   
 B.  $0.013 \times 100 > 1.3$   
 C.  $0.13 \times 10 > 1.3$   
 D.  $0.13 \times 100 = 13$
- 5) A delivery route is 3 kilometers 250 meters long. A driver completes the route twice. How many meters does the driver travel?



- A. 3,500 meters  
 B. 7,500 meters  
 C. 7,000 meters  
 D. 6,500 meters



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- 1) A student buys fabric for a project. She needs 2.5 yards per garment and makes 8 garments. How much fabric does she use?
- A. 18 yards                       C. 20 yards  
 B. 19 yards                       D. 22 yards
- 2) Simplify:  $12 \times \frac{1}{6}$
- A.  $\frac{12}{5}$                                C.  $\frac{1}{72}$   
 B. 2                                   D. 6
- 3) A composite stage platform is made from two non-overlapping rectangular prisms. Prism A is 4 feet long, 2 feet wide, and 2 feet tall. Prism B is 3 feet long, 5 feet wide, and 1 feet tall. What is the total volume?
- A. 16 cubic feet                       C. 31 cubic feet  
 B. 15 cubic feet                       D. 39 cubic feet
- 4) A baker cuts a rectangular cake into equal pieces. The cake originally weighs 5 pounds. If each piece weighs  $\frac{1}{8}$  pound, how many pieces can the baker make?
- A. 30 pieces                           C. 40 pieces  
 B. 35 pieces                           D. 50 pieces
- 5) A solid figure has volume 30 cubic units. If it is 5 cubes long and 3 cubes wide, how tall is it?

*Record your answer in the space provided.*



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- 1) Which expression matches a rectangular prism with length 7 units, width 3 units, and height 5 units?
- A.  $7 + 3 + 5$                        C.  $7 \times (3 + 5)$   
 B.  $7 \times 3 \times 5$                        D.  $(7 + 3) \times 5$
- 2) Ben spends \$12 on pencils and \$5 on erasers each week for 3 weeks. Which expression shows his total spending?
- A.  $3 \times (12 + 5)$                        C.  $12 \times 5 \times 3$   
 B.  $3 + (12 \times 5)$                        D.  $3 \times 12 + 5$
- 3) A composite classroom model is made from two non-overlapping rectangular prisms. Prism A is 5 meters long, 4 meters wide, and 5 meters tall. Prism B is 6 meters long, 2 meters wide, and 3 meters tall. What is the total volume?
- A. 100 cubic meters                       C. 156 cubic meters  
 B. 36 cubic meters                       D. 136 cubic meters
- 4) A garden plot is  $\frac{1}{4}$  acre and is divided equally among 6 plants. How much area per plant?

*Record your answer in the space provided.*

- 5) Round 78.456 to the nearest tenth.
- A. 78.4                       C. 78.5  
 B. 78.45                       D. 79



## 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 A is correct.** **(5.NF.B.6)**  $\frac{3}{4} \times \frac{1}{4} = \frac{3}{16}$  km.
- Choice C is correct.** **(5.OA.A.2)** The distributive property works with subtraction too: 7 times the difference  $40 - 10$  equals  $7 \times 40 - 7 \times 10$ .
- Choice A is correct.** **(5.NBT.A.3)** Grid shows: Grid 1 (0.3) fills 3 columns. Grid 2 (0.5) fills 5 columns. Grid 3 (0.21) fills 2 columns plus small part. Order:  $0.21 < 0.3 < 0.5$ .
- Choice D is correct.** **(5.G.B.3)** The matching tick marks show that triangle D has 3 equal sides. An equilateral triangle also has 3 equal angles, making it a regular polygon.
- Choice B is correct.** **(5.G.A.2)** With input 0, the multiplication part is  $3 \times 0 = 0$ , and  $0 + 1 = 1$ .
- The correct answer is 114 m<sup>3</sup>.** **(5.MD.C.3)** The first prism is  $7 \times 3 \times 4 = 84$  cubic meters. The second is  $5 \times 3 \times 2 = 30$  cubic meters. Together they make 114 cubic meters.
- Choice C is correct.** **(5.NF.A.1)**  $\text{LCM}(10,4) = 20$ .  $\frac{7}{10} = \frac{14}{20}$  and  $\frac{1}{4} = \frac{5}{20}$ .  $\frac{14}{20} + \frac{5}{20} = \frac{19}{20}$ .
- Choice C is correct.** **(5.G.A.2)** The four points form a quadrilateral with four right angles and opposite sides equal. This is a rectangle with width 6 units and height 4 units.
- Choice D is correct.** **(5.NF.B.6)**  $1\frac{1}{4} = \frac{5}{4}$  and  $1\frac{3}{5} = \frac{8}{5}$ . Multiply:  $\frac{5}{4} \times \frac{8}{5} = \frac{40}{20} = 2$ .
- The correct answer is  $(6 \times 10) \div 2$ .** **(5.OA.A.2)** The result of  $6 \times 10$  is divided by 2, so write  $(6 \times 10) \div 2$ . Equivalent expressions that preserve this order are also acceptable.
- 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.
- Choice C is correct.** **(5.NBT.A.2)** First use  $25 \times 4 = 100$ . The 40 has one more zero to include, so the product becomes 1,000, which has 3 zeros.
- The correct answer is  $\frac{1}{4}$ .** **(5.NF.B.6)** Multiply first:  $\frac{5 \times 3}{6 \times 10} = \frac{15}{60}$ . Since 15 is one fourth of 60, the product is  $\frac{1}{4}$ .
- Choice D is correct.** **(5.NF.A.2)**  $\frac{3}{4} = \frac{9}{12}$  and  $\frac{5}{6} = \frac{10}{12}$ . Since  $\frac{10}{12} > \frac{9}{12}$ ,  $\frac{5}{6}$  is greater.
- The correct answer is 40.** **(5.MD.C.4)** Multiply length, width, and height to count the unit cubes.  $2 \times 4 \times 5 = 40$  cubic units.
- Choice C is correct.** **(5.NF.B.6)**  $\frac{5}{6} \approx 1$  and  $\frac{7}{9} \approx 1$ . The exact sum is greater than  $1\frac{1}{2}$  and less than 2, so choice C is best.
- Choice C is correct.** **(5.NF.B.6)** Each whole contains 6 pieces of size  $\frac{1}{6}$ . With 3 wholes, there are  $3 \times 6 = 18$  pieces.
- Choices A, B are correct.** **(5.MD.C.3)** Volume uses cubic units because it measures three-dimensional space. Square centimeters measure area, and inches measure length, so C and D are not volume units.
- Choice C is correct.** **(5.G.B.4)** A square has four right angles and four equal sides, so it is both a rectangle and a rhombus.
- Choice B is correct.** **(5.MD.C.4)** Compute each:  $A = 5 \times 5 \times 3 = 75$ ;  $B = 10 \times 10 \times 1 = 100$ ;  $C = 2 \times 5 \times 8 = 80$ ;  $D = 4 \times 5 \times 4 = 80$ . Only B gives 100 cm<sup>3</sup>.
- Choice A is correct.** **(5.NF.B.6)** Use total amount divided by the size of one piece. The equation is  $6 \div \frac{1}{2} = n$ .
- Choice D is correct.** **(5.NF.B.7)**  $2 \div \frac{1}{6} = 2 \times 6 = 12$ . There are 12 one-sixth slices.
- Choice B is correct.** **(5.NF.A.2)** To compare the fractions, change them to equivalent fractions with the same denominator. The least common denominator of 8 and 5 is 40.  $\frac{3}{8} = \frac{15}{40}$  and  $\frac{2}{5} = \frac{16}{40}$ . Since  $16 > 15$ ,  $\frac{2}{5} > \frac{3}{8}$ , so Rosa has more pizza.
- The correct answer is 5.** **(5.G.A.1)**  $5 = 5 \times 1$ ,  $10 = 5 \times 2$ , etc. Each A term is 5 times its B term.
- Choice A is correct.** **(5.NF.A.1)**  $8 - 3 = 5$  and  $\frac{4}{6} - \frac{2}{6} = \frac{2}{6} = \frac{1}{3}$ . Simplified:  $5\frac{1}{3}$ .
- Choice B is correct.** **(5.OA.A.1)** Use the diagram from left to right. The innermost group gives 6, the middle group gives 18, and the outermost level is  $\{18 + 2\} = 20$ .
- Choice A is correct.** **(5.NF.A.1)** To add unlike fractions, first convert to a common denominator.  $1\frac{3}{4} = 1\frac{6}{8}$ , then add.
- Choice A is correct.** **(5.G.A.2)** The second coordinate is double the first coordinate, then 1 more. For first coordinate 3, double 3 and add 1 to get 7, so the next point is (3, 7).



**Dear Math Student,**

★ One of the best things about finishing seven tests is that you saw your mistakes clearly—and that is good news. Mistakes are not failures; they are information that helps you improve. ★

◇ **A professional habit:** when something goes wrong, you don't quit. You ask, "What happened?" and you fix it. That's how strong learners grow. ◇

**Quick Mistake Check**

- **Read error:** did I miss a word like "most" or "least"?
- **Math error:** did I add/subtract/multiply incorrectly?
- **Setup error:** did I choose the wrong operation?
- **Fix and learn:** write one short note so you remember next time.

**You earned this:** seven tests later, you're smarter, stronger, and more confident.

Reach me at [reza@testinar.com](mailto:reza@testinar.com) if you want to share your progress.

**Reza Nazari & Jay Daie**

Your Math Coaches (Learn and Grow)

# PRACTICE TODAY. PERFORM TOMORROW.

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