

# 7

# New Jersey

# NJSLA

## 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



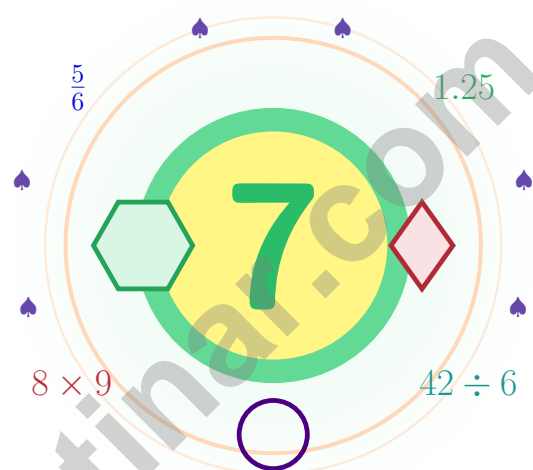
**ACHIEVE SUCCESS**

Develop skills,  
stay prepared,  
excel on test day

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

# 7 New Jersey NJSLA Grade 5 Math Practice Tests

*Seven full tests, seven lessons, one stronger mathematician*



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

**Jay Daie and Reza Nazari**



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# Open the Trail, New Jersey

Seven practice tests woven into one calm routine

## Welcome Letter for New Jersey Math Trail Crew

This practice book is your steady companion for seven tests, not a place to be perfect. Math practice grows like a Jersey garden – a little water, a little sun, and steady tending make everything thrive.

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.

### See

See the question fully  
before you start the  
math.

### Plan

Pick a strategy that fits  
the numbers in front of  
you.

### Build

Build the answer step  
by step, no shortcuts.

**A strong habit for New Jersey 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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# A Map of the Pages

A simple routine that turns practice into progress

## Step 1: Set Up

**Pencil ready, distractions gone.**  
Spend a few minutes waking up your memory before the test begins.

## Step 2: Work the Test

**Take a full test like the real day.**  
Work in a calm spot and focus on careful thinking before speed.

## Step 3: Look Back

**Walk through your answers without rushing.**  
Circle missed questions and notice which topics keep showing up.

## Step 4: Climb Higher

**Pick one or two skills to sharpen next.**  
Read the explanation, repair the work, and bring that lesson into the next test.

## A Good 7-Week New Jersey Rhythm

<b>Week 1</b>	Take Test 1 and tend your first row.
<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 with calm, garden-steady focus.



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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)

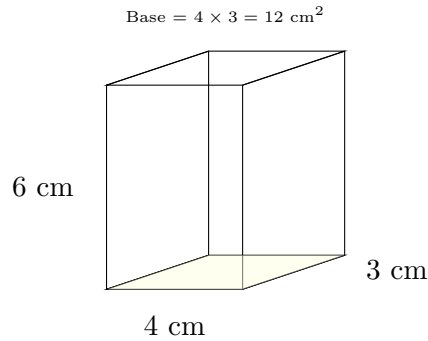
### TIME

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

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

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1)

Using  $V = B \times h$ , find the volume.

- A.  $36 \text{ cm}^3$                        C.  $24 \text{ cm}^3$   
 B.  $72 \text{ cm}^3$                        D.  $18 \text{ cm}^3$

2) A playground has two age groups with counts. Ages 5–7: 3, 6, 9, 12 children per day. Ages 8–10: 2, 4, 6, 8 children per day. Which (younger, older) pair is for day 2?

- A. (9, 6)                               C. (3, 2)  
 B. (12, 8)                             D. (6, 4)

3) Three identical rectangular prisms, each holding 20 unit cubes, are stacked on top of each other. How many unit cubes are there in total?

- A. 20 unit cubes                       C. 60 unit cubes  
 B. 40 unit cubes                       D. 15 unit cubes

4) A coffee maker brews 750 milliliters of coffee. If you need at least 2.5 liters total, what is the least number of full batches needed?

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

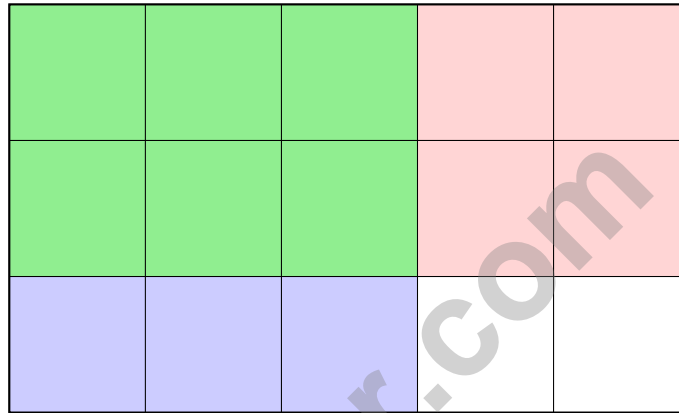


5) Add:  $\frac{2}{3} + \frac{3}{5}$

- A.  $\frac{5}{8}$   
 B.  $\frac{10}{15}$

- C.  $\frac{19}{15}$   
 D.  $\frac{5}{15}$

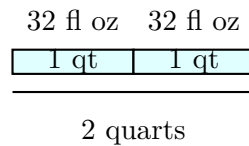
6) The rectangle model shows the overlapping shaded region for  $\frac{3}{5} \times \frac{2}{3}$ . What fraction of the whole rectangle is overlapped?



- A.  $\frac{6}{15} = \frac{2}{5}$   
 B.  $\frac{3}{5}$

- C.  $\frac{2}{3}$   
 D.  $\frac{15}{6}$

7) How many fluid ounces are in 2 quarts? (1 quart = 32 fl oz)



- A. 32 fl oz  
 B. 48 fl oz

- C. 64 fl oz  
 D. 80 fl oz



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1) A baker found that rounding  $7\frac{3}{11}$  to 7 and  $2\frac{9}{10}$  to 3 gave an estimate of 10 for their sum. Is the estimate within 0.5 of the true sum?

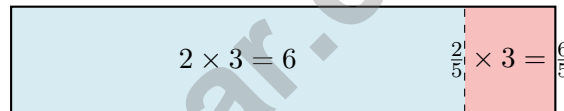
- A. Yes, it equals the exact sum                       C. No, it is off by more than 0.5  
 B. Yes, it is within 0.5                                 D. Cannot determine from the estimate

2) Place-value chart for 3.915: identify the digit in the tenths place.

Ones	Tenths	Hundredths	Thousandths
3	9	1	5

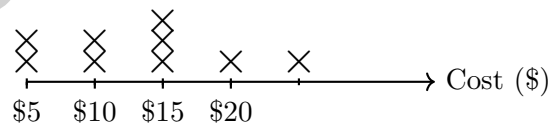
- A. 3     C. 1  
 B. 9     D. 5

3) Multiply:  $2\frac{2}{5} \times 3$



- A.  $7\frac{1}{5}$      C. 6  
 B.  $6\frac{3}{5}$      D. 8

4) The line plot shows costs (in dollars) of items:



Whole-dollar marks shown. How much was spent on items at \$10 and below?

- A. \$55     C. \$50  
 B. \$45     D. \$40



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- 1) A recipe calls for  $(6 \div 2) \times 4$  cups of sugar. Which best describes this?
- A. Divide 6 by 2, then multiply the result by 4
  - B. Divide 6 by 2, then multiply by the sum 4
  - C. Multiply 6 and 4, then divide by 2
  - D. Divide 6 into 4 groups of 2
- 2) Two rectangular boxes are placed side by side. Box 1 has dimensions 5 inches  $\times$  3 inches  $\times$  4 inches. Box 2 has dimensions 6 inches  $\times$  3 inches  $\times$  4 inches. What is the combined volume?

Box	Length	Width	Height
Box 1	5	3	4
Box 2	6	3	4

- A. 48 cubic inches
  - B. 60 cubic inches
  - C. 84 cubic inches
  - D. 132 cubic inches
- 3) Multiply and simplify:  $8 \times \frac{1}{4}$
- A.  $\frac{8}{5}$
  - B. 2
  - C.  $\frac{1}{32}$
  - D. 4
- 4) Write a division equation for:  $\frac{1}{6}$  of a cake shared equally by 3 children.

*Record your answer in the space provided.*



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1) A juice blend has  $\frac{3}{5}$  orange juice and  $\frac{1}{4}$  apple juice. Fraction that is water?

A.  $\frac{3}{20}$

B.  $\frac{7}{20}$

C.  $\frac{4}{9}$

D.  $\frac{1}{20}$

2) A recipe calls for 2 cups of milk. How many quarts is that? (1 quart = 4 cups)

A.  $\frac{1}{4}$  quart

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

C. 1 quart

D. 2 quarts

3) Use the place-value chart to order these decimals:

Ones	Tenths	Hundredths	Thousandths	Value
1	2	3	0	1.230
1	2	0	3	1.203
1	2	3	1	1.231

Which is the least?

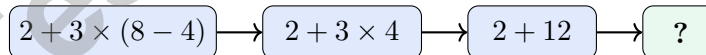
A. 1.230

B. 1.203

C. 1.231

D. All equal

4) The flow chart shows the steps of evaluating  $2 + 3 \times (8 - 4)$ . What goes in the last box?



A. 10

B. 12

C. 14

D. 20



## 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 B is correct.** (5.M.B.3)  $V = B \times h = 12 \times 6 = 72 \text{ cm}^3$ .
- 2) **Choice D is correct.** (5.G.A.2) Day 2: Ages 5–7 count is 6, Ages 8–10 count is 4. Ordered pair is (6, 4).
- 3) **Choice C is correct.** (5.M.B.3) Each prism holds 20 unit cubes. Stacking three identical prisms gives  $20 + 20 + 20 = 60$  unit cubes total.
- 4) **Choice C is correct.** (5.M.A.1) Convert 2.5 L = 2,500 mL. Since  $2500 \div 750 \approx 3.33$ , 3 full batches are not enough, so 4 full batches are needed.
- 5) **Choice C is correct.** (5.NF.A.1)  $\text{LCM}(3,5) = 15$ .  $\frac{2}{3} = \frac{10}{15}$  and  $\frac{3}{5} = \frac{9}{15}$ .  $\frac{10}{15} + \frac{9}{15} = \frac{19}{15} = 1\frac{4}{15}$ .
- 6) **Choice A is correct.** (5.NF.B.6) The rectangle has 15 equal cells. The overlap covers 6 cells, so the product is  $\frac{6}{15} = \frac{2}{5}$ .
- 7) **Choice C is correct.** (5.M.A.1) Since 1 quart = 32 fl oz, multiply 2 by 32:  $2 \times 32 = 64$  fl oz.
- 8) **Choice A is correct.** (5.M.B.3) X:  $13 \times 5 \times 3 = 195 \text{ m}^3$ . Y:  $12 \times 5 \times 3 = 180 \text{ m}^3$ . Prism X is larger.
- 9) **Choice B is correct.** (5.NF.B.7)  $\frac{1}{6} \div 3 = \frac{1}{6} \times \frac{1}{3} = \frac{1}{18}$ .
- 10) **Choice B is correct.** (5.NF.A.2)  $\frac{2 \times 3}{5 \times 3} = \frac{6}{15}$ .
- 11) **Choice C is correct.** (5.G.A.2) Both points have the same  $y$ -coordinate (8), so they are on a horizontal line. The distance is  $6 - 3 = 3$  units.
- 12) **Choice B is correct.** (5.G.B.4) The number 3 is in the intersection. A square has four right angles and four equal sides, so it belongs in both circles.
- 13) **The correct answer is 3.47.** (5.NBT.A.3) Read the place value to decide whether the decimal uses tenths, hundredths, or thousandths. Three wholes, then 47 hundredths: 3.47. This confirms the answer.
- 14) **Choice B is correct.** (5.NF.A.2)  $\frac{7}{8} - \frac{3}{8} = \frac{4}{8}$ . This simplifies to  $\frac{1}{2}$  yard of ribbon.
- 15) **The correct answer is  $3\frac{1}{4}$ .** (5.NF.A.1) Rewrite  $4\frac{1}{2} = 4\frac{2}{4}$ . Subtract:  $(4 - 1) + (\frac{2}{4} - \frac{1}{4}) = 3\frac{1}{4}$ .
- 16) **Choice A is correct.** (5.NBT.B.7) Line up decimal points and subtract place by place.  $4.80 - 1.95 = 2.85$  meters. This confirms the answer.
- 17) **Choice D is correct.** (5.G.B.4) The small square shows a right angle, and the tick marks show two sides are equal, making it isosceles right.
- 18) **Choice C is correct.** (5.NBT.A.2) Divide total grains by number of people:  $2,000 \div 100 = 20$  grains per person.
- 19) **Choice A is correct.** (5.NBT.A.2) A:  $0.5 \times 100 = 50$ . B:  $0.5 \times 10 = 5$ . C:  $0.05 \times 100 = 5$ . D:  $50 \times 0.1 = 5$ . The largest value is 50.
- 20) **Choice A is correct.** (5.OA.B.3) For each pair, Pattern Q is 1 more than Pattern P:  $2 - 1 = 1$ ,  $4 - 3 = 1$ , and  $6 - 5 = 1$ .
- 21) **Choice B is correct.** (5.NBT.A.2) To get from 51.8 to 0.518, we move the decimal 2 places left, which means dividing by 100.
- 22) **Choices A, B are correct.** (5.NF.A.2) The LCM of 3 and 5 is 15, so A is true. Also,  $\frac{1}{3} = \frac{5}{15}$ , so B is true. C adds denominators, and D miscalculates.
- 23) **The correct answer is 6.** (5.NF.B.6) The question asks for  $\frac{3}{4}$  of 8 cups, so multiply:  $\frac{3}{4} \times 8 = 6$ . The answer is 6 cups.
- 24) **Choice A is correct.** (5.NF.A.2) Together eaten:  $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$ . Remaining:  $1 - \frac{5}{8} = \frac{3}{8}$ .
- 25) **Choice B is correct.** (5.G.B.4) The nested rectangles show the square region inside the rectangle region, so all squares are rectangles.
- 26) **Choice D is correct.** (5.NBT.B.7) Add:  $\$4.56 + \$3.28 = \$7.84$  (hundredths:  $6 + 8 = 14$ , regroup; tenths:  $5 + 2 + 1 = 8$ ; dollars:  $4 + 3 = 7$ ).
- 27) **Choice C is correct.** (5.M.B.2) A small juice box needs a small unit. In the metric system, cubic centimeters are a good fit. Cubic meters are too large, and cubic feet or cubic inches are customary units rather than metric units.
- 28) **The correct answer is 17 more.** (5.OA.A.2) The expression  $(8 + 4) + 17$  is exactly  $(8 + 4)$  with 17 added. Accept equivalent wording that says the value is 17 more, including that 17 is added after finding  $8 + 4$ .
- 29) **The correct answer is  $360 \text{ ft}^3$ .** (5.M.B.3)  $15 \times 4 \times 6 = 360 \text{ ft}^3$ .
- 30) **Choice C is correct.** (5.M.B.4) One tile has area  $\frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$  square foot.



## Hi there!

\* You practiced seven full tests, and that builds stamina. Stamina means you can stay focused for the whole test, even when you meet a question that makes you think hard. \*

◇ **Remember this:** being calm is a skill. If you feel nervous, that's normal. Your job is to use your tools—read, plan, solve, check—one step at a time. ◇

### When You Feel Stuck

- **Pause:** take one slow breath.
- **Reread:** what is the question asking?
- **Start small:** write the first step you know.
- **Move on:** return later if it still feels tough.

I'm proud of you for doing the work. Seven tests later, you're stronger and more prepared.

You can always email me at [reza@testinar.com](mailto:reza@testinar.com).

**Reza Nazari & Jay Daie**

Your Math Coaches (You've Got This)

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