

# 10 COMPLETE

## New Jersey

# NJSLA

# GRADE 5

# MATH

# PRACTICE TESTS

Standards-Based Review with  
Mixed Practice and Detailed Answer Key



### 10 Complete Practice Tests

Build confidence and test readiness



### Standards-Based Review

Covers key Grade 5 math standards



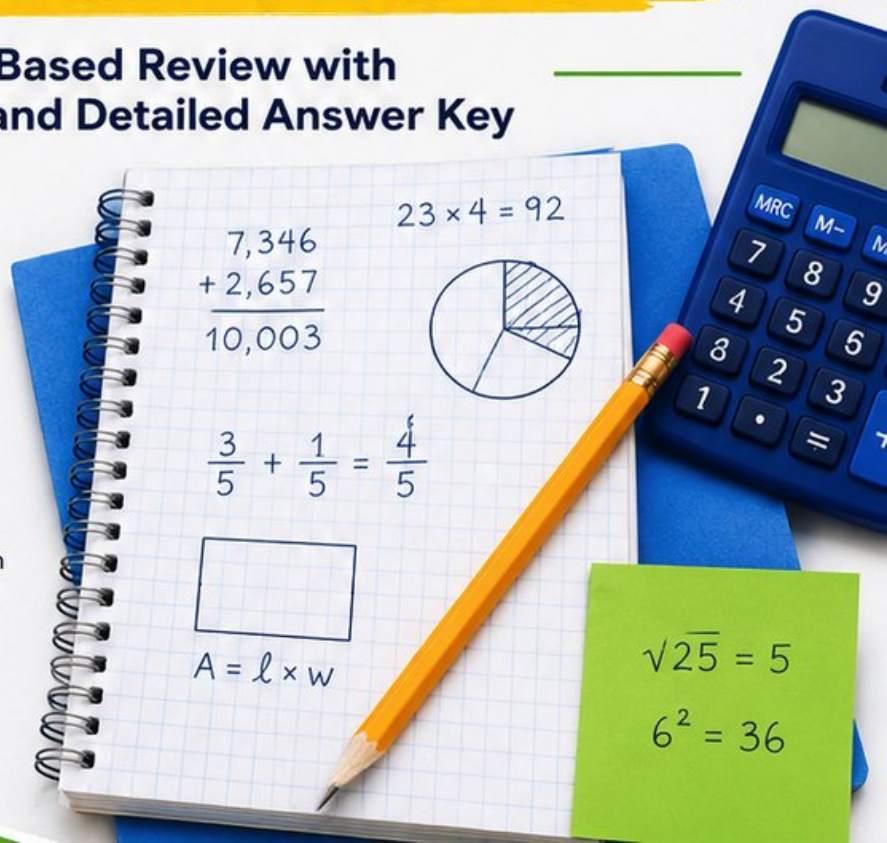
### Mixed Practice

Variety of question types to strengthen skills



### Detailed Answer Key

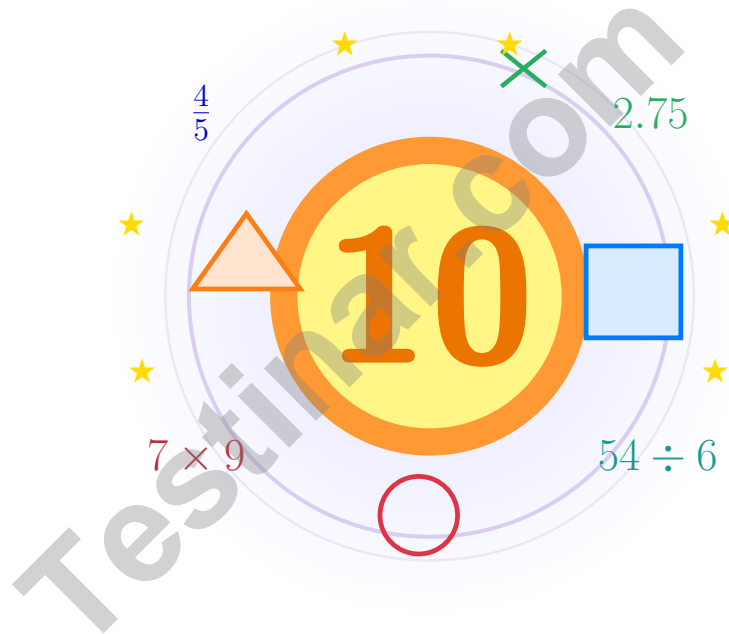
Step-by-step explanations for every question



PREPARE.  
PRACTICE.  
SUCCEED!

# 10 New Jersey NJSLA Grade 5 Math Practice Tests

*Bright review, thoughtful practice, and steady confidence for Grade 5*



Ten full tests, a focused quick review, and student-friendly support that keeps practice clear and encouraging.

**Jay Daie and Reza Nazari**



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# Welcome!

This book is a place to practice bravely and think clearly

## Dear Grade 5 Mathematician

This book gives you ten chances to read carefully, solve thoughtfully, and build steady math confidence. Some problems will feel friendly right away. Some will take more patience. Both kinds help you grow.

The goal is not to feel perfect before you begin. The goal is to practice honest effort, learn from corrections, and notice how much stronger your thinking becomes over time.

### Read

Slow down and understand the task.

### Solve

Show clear steps and good choices.

### Learn

Use mistakes as clues for what comes next.

**A strong habit from the start:** keep your work neat, estimate when it helps, write units carefully, and do not let one hard problem decide your mood for the whole page.



Scan me

# How to Use This Book

A simple routine that turns practice into real progress

## Step 1

**Warm up with the quick review.**

Spend a few minutes refreshing the ideas before the test begins.

## Step 2

**Take one full practice test.**

Work in a calm spot and aim for careful thinking before speed.

## Step 3

**Check your work honestly.**

Circle missed questions and notice which skills need another look.

## Step 4

**Fix and reflect.**

Read the explanation, repair the work, and bring that lesson into the next test.



**A Good 10-Week Rhythm**

<b>Week 1</b>	Take Test 1 and notice your starting strengths.
<b>Week 2</b>	Take Test 2 and slow down on word problems.
<b>Week 3</b>	Take Test 3 and sharpen multiplication and division checks.
<b>Week 4</b>	Take Test 4 and focus on fractions and decimals.
<b>Week 5</b>	Take Test 5 and watch your labels and units closely.
<b>Week 6</b>	Take Test 6 and practice calmer pacing.
<b>Week 7</b>	Take Test 7 and compare your habits with the earlier weeks.
<b>Week 8</b>	Take Test 8 and focus on tidy, checkable work.
<b>Week 9</b>	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
<b>Week 10</b>	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



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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

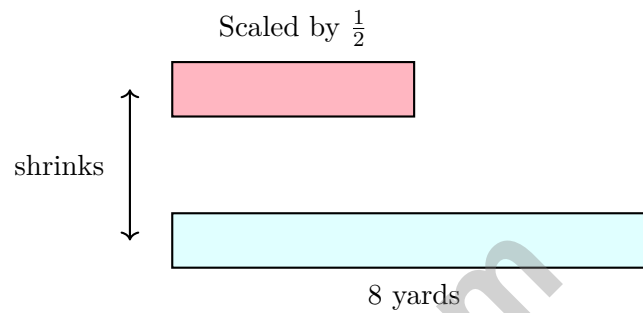
1 hour (hr) = 60 minutes (min)    1 year = 12 months

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



1) A rectangular prism has a volume of 648 cubic units. If the dimensions are 9 units, 8 units, and an unknown dimension, what is the missing dimension?

- A. 7 units                                       C. 9 units  
 B. 8 units                                       D. 12 units



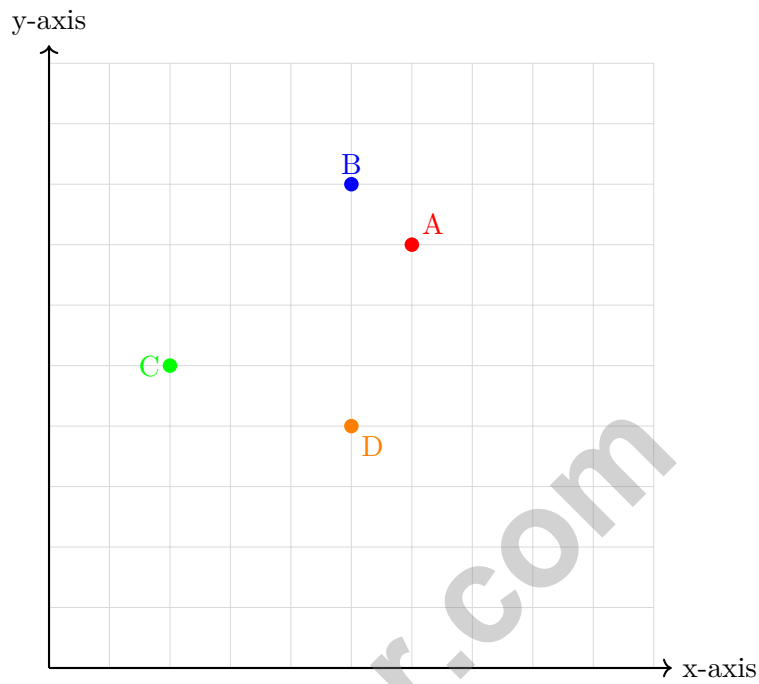
2)

A fabric length of 8 yards is scaled by  $\frac{1}{2}$ . What is the new length?

- A. 2 yards                                       C. 8 yards  
 B. 4 yards                                       D. 12 yards



3) Which point is located at  $(5, 4)$ ?



A. Point A

B. Point B

C. Point C

D. Point D

4) Evaluate:  $(3 \times 3 + 6) \times 2 - 8$

A. 20

B. 22

C. 28

D. 32

5) Multiply:  $3\frac{1}{4} \times 2$

A.  $6\frac{1}{2}$

B.  $6\frac{1}{4}$

C. 7

D. 8



## Grade 5 Mathematics Reference Materials

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1 year = 12 months

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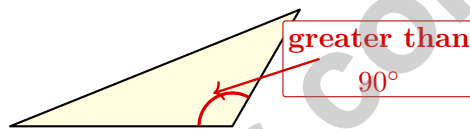
1 year = 52 weeks



- 1) A toy store receives a shipment. The shipment contains: 12 boxes of toy cars (3.2 kg each)  
8 boxes of toy trucks (4.5 kg each)  
What is the total weight of the entire shipment in kilograms?

Cars	Trucks
12 boxes	8 boxes
3.2 kg ea.	4.5 kg ea.

- A. 84.0 kg                       C. 80.8 kg  
 B. 77.6 kg                       D. 74.4 kg
- 2) Look at the triangle. One angle is greater than a right angle. Which angle classification fits?

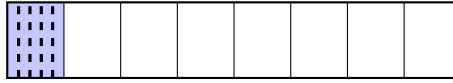


- A. Acute                               C. Obtuse  
 B. Right                               D. Equilateral
- 3) Compare without calculating:  $72 \div 9$    $72 \div 8$
- A.  $>$                                    C.  $=$   
 B. Cannot tell                       D.  $<$
- 4) What is the least common denominator for  $\frac{5}{6}$  and  $\frac{1}{9}$ ?
- A. 54                                   C. 18  
 B. 15                                   D. 6



- 40) The model shows  $\frac{1}{8}$  of a whole split into 5 equal parts. What fraction of the whole is each small part?

$\frac{1}{8}$  split into 5



1 whole split into 8 equal parts

- A.  $\frac{1}{8}$                        C.  $\frac{1}{5}$   
 B.  $\frac{1}{40}$                      D.  $\frac{1}{13}$

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### End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



Grade 5 Mathematics

10

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



## 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.M.B.3) The known dimensions make a base area of  $9 \times 8 = 72$  square units. Since  $648 \div 72 = 9$ , the missing dimension is 9 units.
- 2) **Choice B is correct.** (5.NF.B.5)  $8 \times \frac{1}{2} = 4$  yards. The bar diagram shows the scaled length is half the original, as  $\frac{1}{2} < 1$ .
- 3) **Choice D is correct.** (5.G.A.1) Point D is 5 units right and 4 units up from the origin, so it is located at (5, 4).
- 4) **Choice B is correct.** (5.OA.A.1) Inside the parentheses, multiply first:  $3 \times 3 = 9$ . Then  $9 + 6 = 15$ ,  $15 \times 2 = 30$ , and  $30 - 8 = 22$ .
- 5) **Choice A is correct.** (5.NF.B.6)  $3\frac{1}{4} = \frac{13}{4}$ . Then  $\frac{13}{4} \times 2 = \frac{26}{4} = 6\frac{2}{4} = 6\frac{1}{2}$ .
- 6) **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.
- 7) **Choice B is correct.** (5.NF.B.7) Check the choices by thinking about half-size groups. Since  $8 \div \frac{1}{2} = 8 \times 2 = 16$ , the whole number is 8.
- 8) **Choice C is correct.** (5.NBT.B.7) Add:  $2.34 + 3.67 = 6.01$ ; then  $6.01 + 1.89 = 7.90$  kg.
- 9) **Choice C is correct.** (5.M.A.1) Convert 1.2 L to mL:  $1.2 \times 1000 = 1200$  mL. Both containers hold 1,200 mL.
- 10) **The correct answer is  $\frac{3}{5}$ .** (5.NF.A.2) Divide both by 5:  $\frac{15 \div 5}{25 \div 5} = \frac{3}{5}$ .
- 11) **Choice A is correct.** (5.OA.B.3) Divide by 3 each step:  $3 \div 3 = 1$ .
- 12) **Choice C is correct.** (5.NF.A.2) Common denominator is 15:  $\frac{3}{5} = \frac{9}{15}$  and  $\frac{1}{3} = \frac{5}{15}$ . So  $\frac{9}{15} + \frac{5}{15} = \frac{14}{15}$  mile.
- 13) **The correct answer is  $3 \times (9 + 12)$ .** (5.OA.A.2) The words "the sum of 9 and 12" mean  $9 + 12$  should be grouped before multiplying by 3.
- 14) **The correct answer is 1.** (5.M.A.1) Mia drinks  $250 \times 4 = 1,000$  mL. Since 1,000 mL equals 1 liter, she drinks 1 liter that day.
- 15) **Choice A is correct.** (5.M.B.3)  $V = 10 \times 8 \times 6 = 480$  in<sup>3</sup>.
- 16) **Choice A is correct.** (5.NBT.B.6)  $288 \div 12 = 24$  pencils per classroom. Check:  $12 \times 24 = 288$ .
- 17) **Choice C is correct.** (5.M.B.4) The base area is  $13 \times 5 = 65$  square inches. Since  $325 \div 65 = 5$ , the height is 5 in.
- 18) **Choice C is correct.** (5.NBT.B.7)  $2.8 \div 0.7 = 4$ . Dividing by 0.7 is equivalent to dividing by  $\frac{7}{10}$ :  $2.8 \div 0.7 = 4$ .
- 19) **Choice C is correct.** (5.NBT.A.2)  $5.08 \times 1,000 = 5,080$ . The digits shift three places to greater place values.
- 20) **Choices A, B are correct.** (5.NBT.A.2)  $45 \times 100 = 4500$  and  $450 \times 10 = 4500$ . C equals 45,000, and D equals 450.
- 21) **The correct answer is 9 rectangles.** (5.G.B.4) Rectangles include the rectangle-only region and the intersection:  $6 + 3 = 9$ . Accept either the number alone or the labeled answer.
- 22) **Choice D is correct.** (5.NBT.A.4) To round to the nearest tenth, look at the hundredths digit. In 6.572, the tenths digit is 5 and the hundredths digit is 7. Because  $7 \geq 5$ , round the tenths digit up:  $5 \rightarrow 6$ , giving 6.6 cups.
- 23) **Choice B is correct.** (5.NBT.A.2) The nonzero parts make  $5 \times 2 = 10$ , which adds one zero of its own. Together with the two factor zeros, the product is 1,000 with 3 zeros.
- 24) **Choice D is correct.** (5.M.B.4) Choose the operation from the story, then keep the unit with the answer. Multiply:  $28.5 \times 12 = 342$  miles. This confirms the answer.
- 25) **Choice D is correct.** (5.NF.B.6)  $\frac{18}{20} \times 40 = \frac{18 \times 40}{20} = \frac{720}{20} = 36$  questions.
- 26) **Choice B is correct.** (5.M.A.1) Each foot has 12 inches.  $25 \times 12 = 300$ , so 25 feet equals 300 inches.
- 27) **The correct answer is about 1.5.** (5.NF.A.2)  $\frac{7}{8} \approx 1$  and  $\frac{4}{9} \approx \frac{1}{2}$ , so the estimate is  $1\frac{1}{2}$ . Accept  $1\frac{1}{2}$ , 1.5, or a clearly equivalent benchmark estimate.
- 28) **Choice D is correct.** (5.NBT.A.3) In 7.29, the 2 is in the tenths place and the 9 is in the hundredths place:  $7 + \frac{2}{10} + \frac{9}{100}$ .
- 29) **Choice B is correct.** (5.NBT.A.2) One pen costs 0.45. For 100 pens, move the decimal two places right:  $0.45 \times 100 = 45$ .
- 30) **Choice C is correct.** (5.NF.B.6) Each whole contains 4 pieces of size  $\frac{1}{4}$ . With 2 wholes, there are  $2 \times 4 = 8$  pieces.
- 31) **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.



### Workshop Notes for an Inventor

#### Dear Math Inventor,

◇ 10 practice tests. 10 chances to invent new ways of thinking. You tried strategies, broke them, fixed them, and built them stronger. That's what inventors do. That's what you do. ◇

★ **What inventors know:** the first idea isn't always the best one. Sometimes you have to try, fail, learn, and try again. You've practiced that exact loop on every test. That practice is why your problem-solving brain is so flexible now. ★

#### Inventor's Workshop Inventory

- **Sketch Pad:** FULL of ideas! You can imagine multiple ways to solve.
- **Toolbox:** STOCKED! You have many strategies to draw on.
- **Workbench:** ORGANIZED! Your work is clear and step-by-step.
- **Invention Mindset:** STRONG! You're not afraid to try something new.

**Inventor's tip:** on test day, if your first idea doesn't work, switch tools. Try a different strategy. Inventors don't get stuck on one tool—they pick the right one for the job. Same on a math test.

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 Inventor (Build Big Things)

# PRACTICE TODAY. MASTER TOMORROW.

Give your child the confidence to excel in **Grade 5 Math!**  
This book includes **10 complete practice tests** designed to build strong skills, improve test readiness, and achieve success.



# 10

## COMPLETE PRACTICE TESTS

- ✓ Realistic. Rigorous.
- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.



## THIS BOOK HELPS YOUR CHILD:



### Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



### Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



### Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



### Track Progress

Identify strengths and target areas with purposeful practice.



### Achieve Success

Better preparation leads to higher scores and bright futures.

## COVERS ALL ESSENTIAL TOPICS

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



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