

5

FULL-LENGTH

New Jersey

NJSLA

GRADE 5 MATH

★ PRACTICE TESTS ★



**5 FULL-LENGTH
PRACTICE TESTS**



**COMPLETE
STANDARDS
REVIEW**



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

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



$$12 \times 3 = 36$$



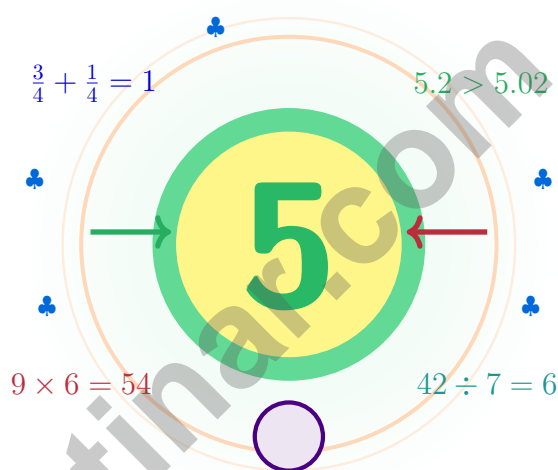
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 New Jersey NJSLA Grade 5 Math Practice Tests

Five full tests, five lessons, one stronger mathematician



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

Jay Daie and Reza Nazari



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

New Jersey, The Five-Test Journey Starts Here

Five full tests, five lessons, one stronger mathematician

To Every Math Brain in New Jersey

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 practice grows like a Jersey garden – a little water, a little sun, and steady tending make everything thrive.

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.

Watch

Watch what the question really wants from you.

Try

Try a strategy that matches the size of the numbers.

Polish

Polish your steps, units, and final answer.

A strong quest habit for New Jersey: 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.

Testinar.com



Scan me



Use This Book Like a Quest Coach

A simple routine that turns five tests into real growth

Step 1: Plan

Plan a quiet hour for one full test.
Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Practice

Take the test with calm focus.
Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Inspect

Inspect every answer like a careful builder.
Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Adjust

Adjust what needs adjusting for the next test.
Read the explanation, repair the work, and carry that lesson into the next test.

A Five-Week New Jersey Quest Map

Week	Mission Focus
Week 1	Take Test 1 and tend your first row of math.
Week 2	Take Test 2 and notice one habit that grew steadier.
Week 3	Take Test 3 and lift fractions, decimals, and conversions.
Week 4	Take Test 4 and slow down on multi-step problems.
Week 5	Take Test 5 with calm, careful, garden-steady focus.



Table of Contents

★ Practice Test 1	_____	20
★ Practice Test 2	_____	36
★ Practice Test 3	_____	50
★ Practice Test 4	_____	67
★ Practice Test 5	_____	83
Practice Test Answer Keys	_____	98
Practice Test Answers and Explanations	_____	102

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

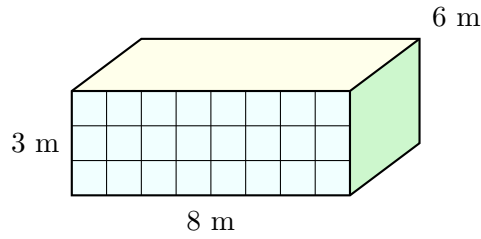
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



4) A classroom is 8 meters long, 6 meters wide, and 3 meters high. Which statement is true?



- | | |
|---|---|
| <input type="checkbox"/> A. The volume is 144 square meters | <input type="checkbox"/> C. The perimeter is 144 cubic meters |
| <input type="checkbox"/> B. The volume is 144 cubic meters | <input type="checkbox"/> D. The area is 144 cubic meters |

5) A gardener plants on $\frac{3}{8}$ of land initially, then $\frac{1}{8}$ more. Fraction planted?

- | | |
|---|---|
| <input type="checkbox"/> A. $\frac{2}{8}$ | <input type="checkbox"/> C. $\frac{5}{8}$ |
| <input type="checkbox"/> B. $\frac{7}{8}$ | <input type="checkbox"/> D. $\frac{1}{2}$ |

6) Find the sum: $\frac{2}{5} + \frac{3}{10}$.

Record your answer in the space provided.

7) Without computing: how many trailing zeros does 500×300 have?

- | | |
|-------------------------------|-------------------------------|
| <input type="checkbox"/> A. 3 | <input type="checkbox"/> C. 5 |
| <input type="checkbox"/> B. 4 | <input type="checkbox"/> D. 6 |



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) Add: $\frac{1}{9} + \frac{1}{6}$

A. $\frac{2}{15}$

B. $\frac{5}{18}$

C. $\frac{2}{54}$

D. $\frac{1}{15}$

50×11	4×11
550	44
50×6	4×6
300	24

2)

Use the area model to find 54×17 .

A. 900

B. 918

C. 935

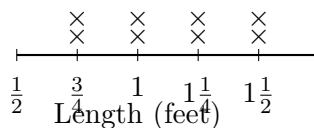
D. 950

3) A classroom map uses ordered pairs. A plant is located 3 units right and 6 units up from the origin. What ordered pair should be used to plot the plant?

Record your answer in the space provided.

4) The line plot displays lengths of string, in feet:

String Lengths



What is the total length of the strings that are $1\frac{1}{4}$ feet long?

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

B. 5 feet

C. $3\frac{3}{4}$ feet

D. $2\frac{1}{2}$ feet



Scan me

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



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) Rewrite the fractions $\frac{1}{6}$, $\frac{1}{4}$, and $\frac{1}{3}$ with a common denominator.

A. $\frac{2}{12}, \frac{3}{12}, \frac{4}{12}$

C. $\frac{3}{12}, \frac{3}{12}, \frac{4}{12}$

B. $\frac{1}{12}, \frac{2}{12}, \frac{3}{12}$

D. $\frac{2}{12}, \frac{4}{12}, \frac{5}{12}$

2) A prism has volume 200 m^3 , length 8 m, and width 5 m. Find its height.

Record your answer in the space provided.

3) Evaluate: $(9 \times 2) + [15 - (3 + 2)]$

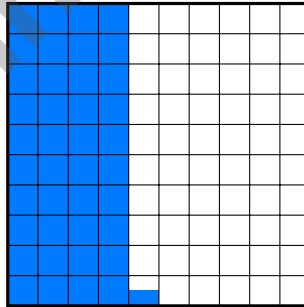
A. 15

C. 25

B. 19

D. 28

4) Use the thousandths place-value grid to compare 0.405 and 0.504:



0.405 (405 thousandths shaded)

Which is greater?

A. 0.405

C. Equal

B. Cannot compare

D. 0.504



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.

Testinar.com



Scan me

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** (5.OA.B.3) Plus-3 at step 5: $1 + 3(4) = 13$. Plus-5 at step 5: $1 + 5(4) = 21$. Difference: $21 - 13 = 8$.
- 2) **Choice A is correct.** (5.M.B.3) $V = 16 \times 5 \times 3 = 240 \text{ in}^3$.
- 3) **The correct answer is 3.** (5.M.A.1) $36 \div 12 = 3$ feet. Since 12 inches make 1 foot, 36 inches makes 3 full feet.
- 4) **Choice B is correct.** (5.M.B.2) Volume: $8 \times 6 \times 3 = 144$ cubic meters. Volume always uses cubic units, not square units.
- 5) **Choice D is correct.** (5.NF.A.2) $\frac{3}{8} + \frac{1}{8} = \frac{4}{8} = \frac{1}{2}$ of the land is planted.
- 6) **The correct answer is $\frac{7}{10}$.** (5.NF.A.1) Rewrite $\frac{2}{5} = \frac{4}{10}$. Then $\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$.
- 7) **Choice B is correct.** (5.NBT.A.2) $5 \times 3 = 15$, which does not end in zero. The four factor zeros make 150,000, and that product has 4 trailing zeros.
- 8) **Choice A is correct.** (5.NF.B.6) $\frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$ cup.
- 9) **The correct answer is 7.21.** (5.NBT.B.7) Align by place value. Hundredths: $6 + 5 = 11$, write 1 carry 1. Tenths: $3 + 8 + 1 = 12$, write 2 carry 1. Ones: $4 + 2 + 1 = 7$. Result 7.21.
- 10) **Choice B is correct.** (5.NBT.B.7) Subtract the scene time from the total time: $2.45 - 1.25 = 1.20$. The rest of the movie lasts 1.20 hours.
- 11) **Choice C is correct.** (5.OA.A.1) Find the whole divisor before dividing. First $(4 + 2) = 6$, then $6 \times 2 = 12$, and finally $72 \div 12 = 6$.
- 12) **Choice C is correct.** (5.M.B.4) Use the rectangular-prism volume formula: $6 \times 7 \times 8 = 336$. So the volume is 336 cubic feet.
- 13) **The correct answer is 0.04.** (5.NBT.A.2) Move the decimal point one place left: $0.4 \rightarrow 0.04$.
- 14) **Choice A is correct.** (5.M.B.2) Find each part first: Prism A is $4 \times 2 \times 3 = 24$ cubic centimeters, and Prism B is $3 \times 3 \times 5 = 45$ cubic centimeters. Because the parts do not overlap, add them: $24 + 45 = 69$ cubic centimeters.
- 15) **Choice B is correct.** (5.OA.A.2) Each box starts with 24 pencils, so 6 boxes have 6×24 pencils. Since 4 pencils in each box are broken, subtract 6×4 broken pencils.
- 16) **Choice A is correct.** (5.NF.B.6) $\frac{1}{3} \times \frac{3}{4} = \frac{3}{12} = \frac{1}{4}$ pound.
- 17) **Choice D is correct.** (5.M.B.4) Paint used = $\frac{5}{8} \times \frac{2}{5} = \frac{10}{40}$ of a full can.
- 18) **Choice B is correct.** (5.NBT.A.2) Dividing by 10 moves the decimal point one place to the left. Since $350 = 350.0$, we get $350.0 \div 10 = 35.0 = 35$.
- 19) **Choice D is correct.** (5.NBT.A.2) $10^2 = 100$. So $? \times 100 = 7200 \Rightarrow ? = 72$.
- 20) **Choices A, B are correct.** (5.NF.A.2) C is about $\frac{7}{10}$; D is $\frac{3}{4}$.
- 21) **Choice D is correct.** (5.M.B.4) Subtract the sales and returns from the total cost: $4,850 - 3,200 - 450 = 1,200$. So \$1,200 is still not covered.
- 22) **Choice D is correct.** (5.NF.B.6) Two groups of $2\frac{1}{3}$ are $2\frac{1}{3} + 2\frac{1}{3} = 4\frac{2}{3}$. The student's answer $4\frac{1}{3}$ shows they doubled the whole number 2 to 4 but left the $\frac{1}{3}$ unchanged.
- 23) **Choice A is correct.** (5.NF.B.4) The shaded strip is $\frac{1}{5}$ unit wide for each unit of height. With 2 units of height, the area is $2 \times \frac{1}{5} = \frac{2}{5}$ square unit.
- 24) **Choice C is correct.** (5.G.B.4) The circle for squares is completely inside the circle for rectangles, so every square shown is also a rectangle.
- 25) **Choice D is correct.** (5.M.A.1) Total needed: 3 liters = 3,000 mL. Chef has: 2 liters 250 mL = 2,250 mL. Remaining: $3,000 - 2,250 = 750$ mL.
- 26) **Choice A is correct.** (5.G.A.1) A point in this region has a positive x-coordinate and a positive y-coordinate. Only (4, 6) has both coordinates greater than 0.
- 27) **Choice B is correct.** (5.M.B.3) Volume = $9 \times 4 \times 6 = 36 \times 6 = 216$ cubic units.
- 28) **Choice A is correct.** (5.G.A.2) The x-coordinate is the time in hours, 9, and the y-coordinate is the temperature, 15 degrees Celsius.



Hey there, Mathematical Inventor!

★ Brilliant innovation session! You've engineered solutions to five complete practice tests, designing creative approaches and building mathematical machines in your mind like a master inventor! Every problem you solved required you to design a solution strategy, test different approaches, and refine your methods. That's exactly what inventors do and you've become exceptionally skilled at it! ★

◇ **Here's what successful inventors understand:** the first prototype rarely works perfectly. Great inventors test, adjust, redesign, and improve until they create something remarkable. You've practiced that exact process through these five tests! Each mistake taught you to refine your approach, and now you have a toolbox full of reliable mathematical inventions ready to use! ◇

Inventor's Workshop: Your Creations

- **Problem-Solving Blueprints:** You've designed reliable methods for every problem type!
- **Strategic Prototypes:** You test multiple approaches to find the most efficient solution!
- **Quality Testing:** You verify your answers to ensure accuracy before submitting!
- **Continuous Improvement:** You learn from feedback and consistently enhance your skills!

Remember this inventor's principle: preparation is the foundation of innovation! Five complete practice tests represent substantial preparation. You've tested your mathematical machines repeatedly, and they work beautifully. Test day is your opportunity to demonstrate your inventions to the world. Trust your engineering!

Want to patent a particularly clever solution method? Share your mathematical inventions at reza@testinar.com. I celebrate innovative thinking!

Reza Nazari & Jay Daie

Your Supportive Math Coaches

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.



COMPLETE STANDARDS REVIEW

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



SKILL PRACTICE

Strengthen key math skills through a wide variety of practice questions.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world questions.



FULL ANSWER KEY

Step-by-step explanations for every question to help students learn and improve.



PRACTICE MORE. LEARN BETTER. SUCCEED ANYWHERE.



Build Confidence
with consistent
practice



Improve Accuracy
and problem-
solving skills



Time Management
strategies for
test success



**Achieve Your
Best Score!**



Visit testinar.com/math5
for more Grade 5 math resources
and practice materials!



Testinar
Smart Practice. Stronger Results.