

8

FULL-LENGTH

Rhode Island

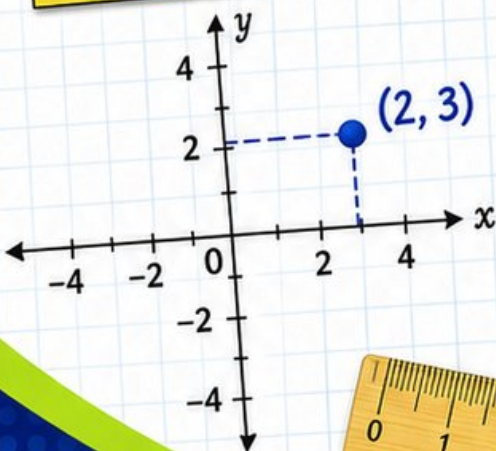
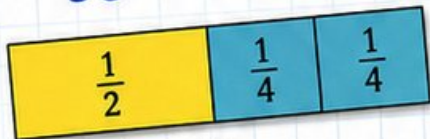
RICAS

GRADE 5

MATH PRACTICE TESTS

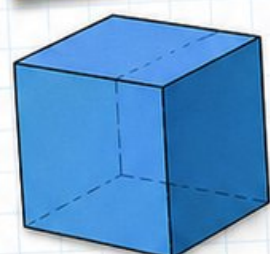
Mixed Practice Questions with Answer Key
for Students, Parents, and Teachers

$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

$$7 \times (12 - 5) = 49$$

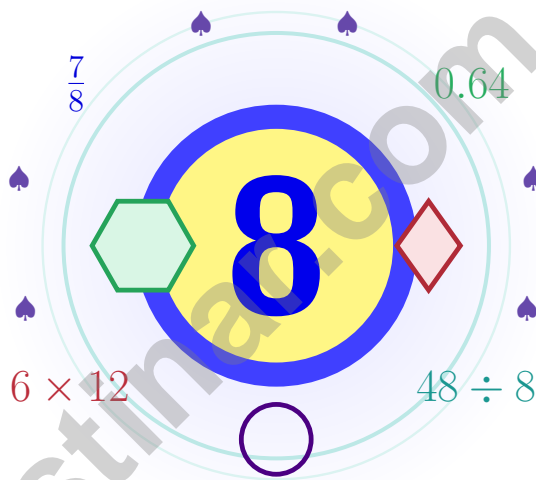


1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



8 Rhode Island RICAS Grade 5 Math Practice Tests

A eight-step trail built for steady, brave thinking



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

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 ©

Welcome to the Eight-Step Practice Path, Rhode Island

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

Trail Briefing for Rhode Island Grade 5 Math Crew

This practice book is your steady companion for eight tests, not a place to be perfect. Math is a lot like Narragansett Bay – small enough to see end to end, big enough to teach you patience.

Use these eight 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.

Watch

Watch what the problem actually wants from you.

Choose

Choose the operation, model, or table that fits.

Polish

Check labels, units, and the final word of the question.

A strong habit for Rhode Island 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.

Testinar.com



Scan me



How to Use This Book

A simple routine that turns practice into progress

Step 1: Open

Open the warm-up review and use it.

Spend a few minutes waking up your memory before the test begins.

Step 2: Test

Take the test with steady focus.

Work in a calm spot and focus on careful thinking before speed.

Step 3: Reflect

Notice what was sharp and what was shaky.

Circle missed questions and notice which topics keep showing up.

Step 4: Sharpen

Practice the shaky skills before the next round.

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



Table of Contents

★ Practice Test 1	_____	22
★ Practice Test 2	_____	37
★ Practice Test 3	_____	52
★ Practice Test 4	_____	67
★ Practice Test 5	_____	83
★ Practice Test 6	_____	98
★ Practice Test 7	_____	114
★ Practice Test 8	_____	129
Practice Test Answer Keys	_____	143
Practice Test Answers and Explanations	_____	148

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

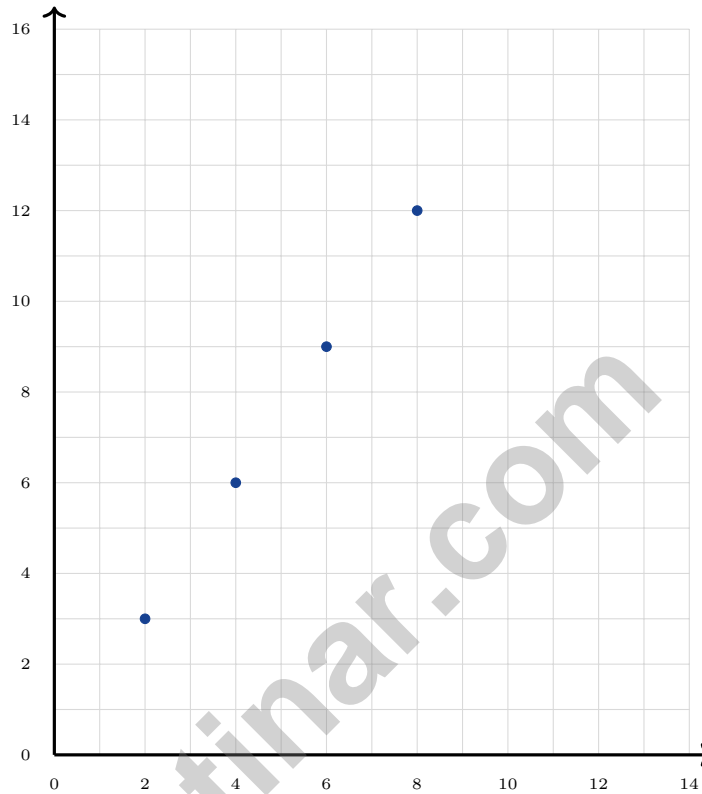
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) Omar plots (2, 3), (4, 6), (6, 9), (8, 12). Looking at his pattern, what should be the next point?



- A. (12, 16) C. (10, 14)
- B. (9, 13) D. (10, 15)
- 2) **Reasoning:** Two rectangular prisms have the same volume of 240 cm^3 . Prism A has dimensions 10 cm by 8 cm by ?. Prism B has dimensions 12 cm by 10 cm by ?. Which prism has the greater height?
- A. Prism A C. Same height
- B. Prism B D. Cannot determine



3) Complex problem: Write the decimal for $1 + \frac{3}{10} + \frac{6}{100}$, then identify all the digits and their place values.

- A. 1.36; 1 in ones, 3 in tenths, 6 in hundredths
 C. 1.63; 1 in ones, 6 in tenths, 3 in hundredths
 B. 1.306; 1 in ones, 3 in tenths, 0 in hundredths, 6 in thousandths
 D. 0.136; correct place values

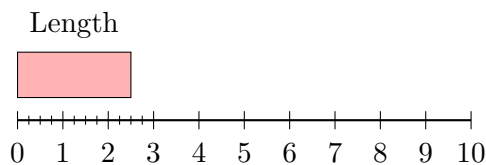
4) A prism’s bottom layer has 12 unit cubes. The prism is 4 layers tall. What is the total volume?

Record your answer in the space provided.

5) A juice container holds 120 cubic centimeters. A second container holds 80 cubic centimeters. How much more volume does the first container hold?

- A. 20 cubic centimeters C. 80 cubic centimeters
 B. 40 cubic centimeters D. 200 cubic centimeters

6) Which measurement is shown on the ruler?



- A. $2\frac{1}{2}$ inches C. 3 inches
 B. 2 inches D. $2\frac{1}{4}$ inches



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) Write $5 + \frac{8}{100}$ as a decimal.

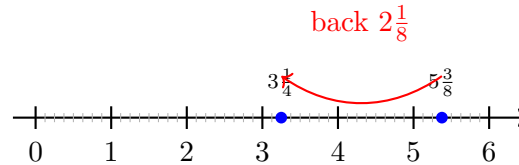
A. 5.8

C. 5.008

B. 5.08

D. 50.8

2) Use a number line to find $5\frac{3}{8} - 2\frac{1}{8}$.



A. $3\frac{1}{8}$

C. $3\frac{3}{8}$

B. $3\frac{1}{4}$

D. $4\frac{1}{8}$

3) A composite solid has a lower prism that is 9 cm by 4 cm by 3 cm and an upper prism that is 8 cm by 4 cm by 3 cm. The prisms do not overlap. What is the total volume?

A. 156 cubic centimeters

C. 204 cubic centimeters

B. 168 cubic centimeters

D. 252 cubic centimeters

4) A movie is 2.45 hours long. The middle scene lasts 1.25 hours. How long is the rest of the movie?

A. 0.50 hours

C. 0.20 hours

B. 1.20 hours

D. 1.30 hours

5) A baker needs $\frac{3}{4}$ cup of flour and $\frac{1}{5}$ cup of sugar. Estimate the total.

A. Less than $\frac{1}{2}$ cup

C. About $1\frac{1}{2}$ cups

B. About 1 cup

D. More than 2 cups



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) Pattern: 1, 2, 4, 7, 11, ... Which rule explains the pattern and gives the next number?
- A. Add 3 each time; next is 14
- B. Add 1, then 2, then 3, then 4; next is 15
- C. Add 1, then 2, then 3, then 4, then 5; next is 16
- D. Multiply by 2; next is 22
- 2) A water bottle holds 1.5 liters. If a person drinks 350 mL at breakfast, 280 mL at lunch, and 420 mL at dinner, how much water remains?
Use: 1 liter = 1,000 mL
- A. 350 mL
- B. 450 mL
- C. 500 mL
- D. 550 mL
- 3) Maria has 8 pizzas. Each person gets one fourth of a pizza. Which division equation matches the situation?
- A. $\frac{1}{4} \div 8 = n$
- B. $8 \times \frac{1}{4} = n$
- C. $8 + \frac{1}{4} = n$
- D. $8 \div \frac{1}{4} = n$
- 4) A batch of cookies has 48 cookies. If you eat $\frac{1}{8}$ of the batch, how many cookies do you eat?
- A. 6 cookies
- B. 8 cookies
- C. 24 cookies
- D. 40 cookies
- 5) A tank holds 8 gallons of water. Each garden container holds $\frac{1}{2}$ gallon. How many containers can be filled?
- A. 16 containers
- B. 20 containers
- C. 24 containers
- D. 32 containers



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) The y-coordinate of a point is 10. Which statement must be true?



- A. The point is on the x-axis
- B. The point is 10 units above the x-axis
- C. The point is at the origin
- D. The x-coordinate is also 10
- 2) A recipe uses 2.5 cups of flour for each batch. How much flour is needed for 6 batches?
- A. 12 cups
- B. 13 cups
- C. 15 cups
- D. 18 cups
- 3) At a grocery store, you have \$32.58. You buy milk for \$4.75 and bread for \$2.89. How much money is left?
- A. \$24.84
- B. \$24.94
- C. \$25.04
- D. \$24.64



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



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice D is correct.** (5.G.A.2) Each time x increases by 2, y increases by 3. From (8, 12): x becomes 10, y becomes 15.
- Choice A is correct.** (5.MD.C.5) Prism A has base area $10 \times 8 = 80$ square centimeters, and $240 \div 80 = 3$, so its height is 3 cm. Prism B has base area $12 \times 10 = 120$ square centimeters, and $240 \div 120 = 2$, so its height is 2 cm. Prism A has the greater height.
- Choice A is correct.** (5.NBT.A.3) $1 + \frac{3}{10} + \frac{6}{100} = 1 + 0.3 + 0.06 = 1.36$. The digit 1 is in the ones place, 3 in tenths, 6 in hundredths.
- The correct answer is 48.** (5.MD.C.4) The bottom layer has 12 cubes, and the prism is 4 layers tall. That gives $12 \times 4 = 48$ cubic units.
- Choice B is correct.** (5.MD.C.4) Compare the volumes by subtracting: $120 - 80 = 40$. The first container holds 40 cubic centimeters more.
- Choice A is correct.** (5.MD.A.1) The shaded bar extends from 0 to 2.5, which is $2\frac{1}{2}$ inches.
- Choice D is correct.** (5.NF.B.5) 20×1 is exactly 20, not greater than 20. The factor $1\frac{1}{20}$ is just a little more than 1, so $20 \times 1\frac{1}{20} = 21$ is the closest product above 20.
- Choice A is correct.** (5.NBT.A.2) Move the decimal 1 place left: $1.9 \div 10 = 0.19$.
- The correct answer is 47 cm.** (5.NBT.A.2) Add the heights shown by the marks: $6 + 3(6\frac{1}{2}) + 2(7) + 7\frac{1}{2} = 47$ centimeters.
- Choice D is correct.** (5.NBT.A.2) $180 = 18 \times 10$ and $500 = 5 \times 100$. The nonzero parts make $18 \times 5 = 90$, and the powers of 10 make $10 \times 100 = 1,000$. So $90 \times 1,000 = 90,000$, which has 4 zeros total.
- Choice C is correct.** (5.G.A.1) The point is 4 units to the right of the origin and 6 units up, so its ordered pair is (4, 6).
- The correct answer is 39.2.** (5.MD.C.5) Choose the operation from the story, then keep the unit with the answer. $5.6 \times 7 = 39.2$ km. This confirms the answer.
- Choice B is correct.** (5.MD.C.5) $\text{LCM}(10, 5) = 10$. $\frac{1}{5} = \frac{2}{10}$. $\frac{3}{10} + \frac{2}{10} = \frac{5}{10} = \frac{1}{2}$ meter.
- Choice A is correct.** (5.NBT.A.2) 36×100 means 36 groups of 100, which is 3600. The student wrote 360, so only one zero was placed on the right instead of two.
- Choice A is correct.** (5.OA.B.3) Pattern Y is always 3 times Pattern X: $4 \times 3 = 12$, $7 \times 3 = 21$, $10 \times 3 = 30$, $13 \times 3 = 39$.
- Choice A is correct.** (5.MD.C.4) The base area is $12 \times 5 = 60$ square inches. Since $360 \div 60 = 6$, the height is 6 in.
- Choice A is correct.** (5.NBT.B.5) $36 \times 15 = 36 \times (10 + 5) = 360 + 180 = 540$. Marcus's answer is correct.
- Choice D is correct.** (5.NF.A.2) Both fractions have denominator 8, so they already share a common denominator.
- Choice B is correct.** (5.NBT.A.1) In the decimal system, each place is 10 times the place to its right. So ones (1) = $10 \times$ tenths (0.1).
- The correct answer is 343 cm³.** (5.MD.C.4) A cube has the same side length in every direction. So the volume is $7 \times 7 \times 7 = 343$ cm³.
- Choice D is correct.** (5.MD.C.4) $8.5 \times 10^3 = 8.5 \times 1000 = 8500$, so the missing number is 8.5.
- Choices A, B are correct.** (5.NBT.A.2) The point (3, 70) has x-coordinate 3 and y-coordinate 70. That matches the axis labels in the graph.
- Choice D is correct.** (5.NF.A.1) Use denominator 12: $1\frac{1}{6} = 1\frac{2}{12}$, $\frac{1}{4} = \frac{3}{12}$, and $\frac{1}{12}$ stays the same. The fractional parts add to $\frac{2}{12} + \frac{3}{12} + \frac{1}{12} = \frac{6}{12} = \frac{1}{2}$, so the sum is $1\frac{1}{2}$.
- The correct answer is $\frac{2}{3}$.** (5.NF.A.2) Reduce each fraction by dividing the numerator and denominator by the same number. $\frac{6}{9}$ and $\frac{8}{12}$ both simplify to $\frac{2}{3}$.
- Choice B is correct.** (5.NF.A.2) The nested rectangles show the square region inside the rectangle region, so all squares are rectangles.
- Choice D is correct.** (5.NBT.A.2) $10^1 = 10$, so $\frac{2,800}{10^1} = 2,800 \div 10 = 280$.



Math Athlete, Listen Up!

◇ 8 practice tests done. That's serious training. Your math muscles are strong, your endurance is high, and your reflexes (recognizing problem types) are quick. You're in great shape for the big test. ◇

★ **Trainer's wisdom:** muscle memory is real, even in math. The more you do something, the more your brain knows how to do it without thinking. You've built that muscle memory over 8 tests. Now it's automatic. ★

Athlete's Performance Card

- **Endurance:** TOP-TIER! You can finish a long test without burnout.
- **Strength:** STRONG! You handle multi-step problems with power.
- **Speed:** SHARP! You move efficiently from question to question.
- **Recovery:** GREAT! You bounce back fast from tough questions.

Trainer's tip: on test day, hydrate, breathe deeply, and warm up with the easier questions first. Build your rhythm. Your training will carry you the rest of the way.

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie

Your Math Trainer (You're In Great Shape)

$45 \div 5 = ?$

PRACTICE TODAY.

$\frac{3}{5} + \frac{1}{10} = ?$



ACHIEVE TOMORROW!



$3^2 + 4^2 = 25$

This book includes **8** full-length **Grade 5** math practice tests to help students master essential skills, build confidence, and achieve success. Each test is carefully designed to reflect real math standards and cover a variety of question types with detailed answer explanations.

$7x - 4 = 17$

$1\frac{1}{2} + 2\frac{1}{3} = ?$

8 FULL-LENGTH MATH PRACTICE TESTS



REALISTIC PRACTICE

Tests mirror Grade 5 math standards and real assessment formats.



ANSWER KEY INCLUDED

Detailed answer explanations help students understand and learn.



BUILD CONFIDENCE & SKILLS

Strengthens problem-solving abilities and reinforces key math concepts.



IMPROVE & TRACK PROGRESS

Identify strengths and focus on areas that need improvement.



ACHIEVE SUCCESS

Boosts test readiness and helps students achieve their best results.

COVERS ALL KEY GRADE 5 MATH TOPICS

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

...and More!



VISIT testinar.com/math5

for more Grade 5 math resources and practice materials!



TRUSTED BY PARENTS



CREATED BY EDUCATORS



ALIGNED TO STANDARDS

Great for Students, Parents, and Teachers!

Practice with purpose. Succeed with confidence!