

# 3

# Texas STAAR

## GRADE 3

# MATH PRACTICE TESTS

Standards-Aligned  
Practice for Stronger  
Math Skills and  
Test Readiness



Build Confidence  
with Targeted Practice



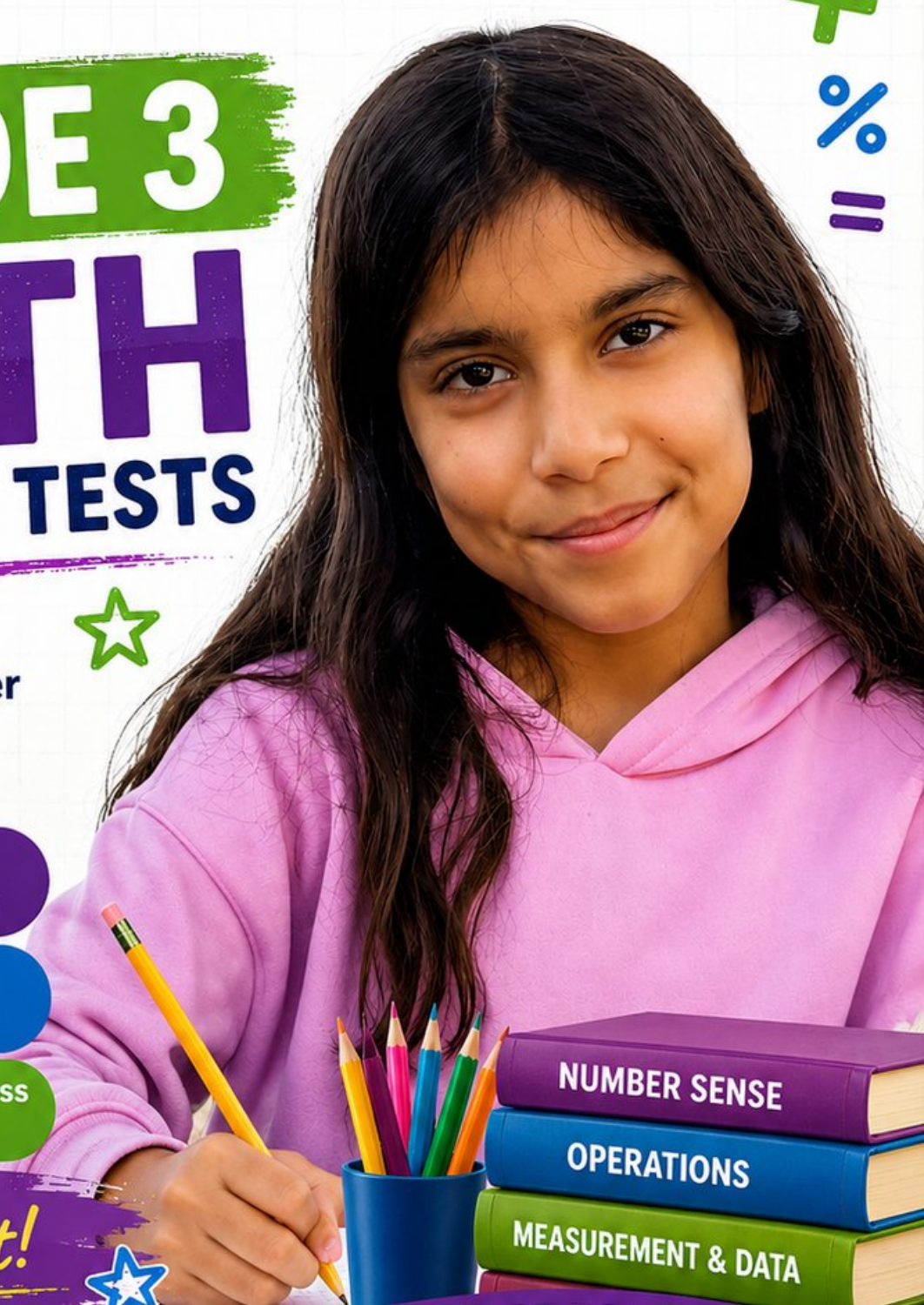
Strengthen Skills  
in Key Math Concepts



Improve Test Readiness  
with Realistic Practice

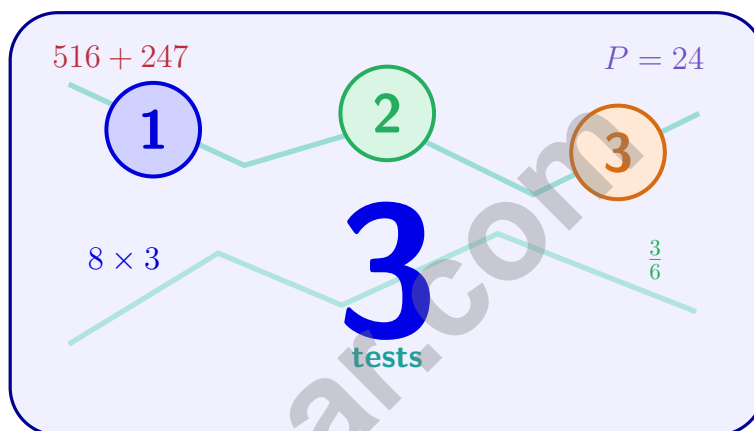


Be Ready.  
Do Your Best!



# 3 Texas STAAR Grade 3 Math Practice Tests

*Standards-Aligned Practice for Stronger Math Skills and Test Readiness*



Three 30-question trail tests packed with Grade 3 review, Texas STAAR strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

**Jay Daie and Reza Nazari**



# Copyright ©

## Testinar Inc



Published by Testinar Inc

[Testinar.com](http://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 Texas Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



## To the Grade 3 Trail Scout

This book is your practice trail for the Texas STAAR. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

### Spot

Read carefully and find what the problem is really asking.

### Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

### Signal

Check that your answer makes sense before you wave the next question on.

**Trail promise:** I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

# How to Use This Book

A four-step trail plan that turns practice into progress

## Step 1: Pack Your Pack

**Read the Quick Review first.**  
Wake up the Grade 3 ideas you will need before you set foot on the trail.

## Step 2: Hit the Trail

**Take one full test.**  
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

## Step 3: Campfire Check

**Check answers honestly.**  
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

## Step 4: Track Back

**Fix a few mistakes.**  
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

## A Three-Week Trail Plan

<b>Week 1</b>	Hike Test 1. Map what feels strong and what needs a second look.
<b>Week 2</b>	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
<b>Week 3</b>	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

**Best trail habit:** Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



# Test Overview

## What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the Texas STAAR asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

### Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

### Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

### Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

**What strong STAAR work looks like:** the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.



Scan me!  
For more practice  
& answers

# Table of Contents

★ Practice Test 1	_____	18
★ Practice Test 2	_____	30
★ Practice Test 3	_____	42
Practice Test Answer Keys	_____	55
Practice Test Answers and Explanations	_____	58

1) A garden is divided into 6 equal sections. What unit fraction represents one section?

- A.  $\frac{6}{1}$   
 B.  $\frac{1}{6}$

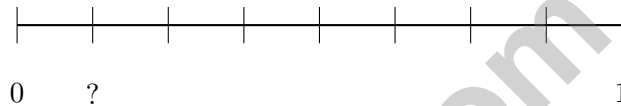
- C.  $\frac{5}{6}$   
 D.  $\frac{1}{7}$

2) Ben shares 35 toy blocks equally among 7 friends. How many blocks does each friend get?

- A. 4  
 B. 42

- C. 28  
 D. 5

3) A number line from 0 to 1 is split into 8 equal parts. What is the unit fraction at the first tick?



- A.  $\frac{1}{8}$   
 B.  $\frac{2}{8}$

- C.  $\frac{1}{7}$   
 D.  $\frac{3}{8}$

4) Eli's drawing pad is 10 centimeters long and 6 centimeters wide. What is its area?

- A. 16 sq cm  
 B. 32 sq cm

- C. 50 sq cm  
 D. 60 sq cm

5) Ava's pet kennel has room for 42 dogs. If each kennel room holds 6 dogs, how many kennel rooms does Ava need?

- A. 36  
 B. 48

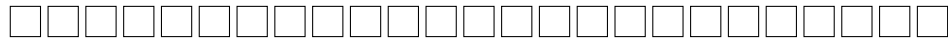
- C. 8  
 D. 7



6) A baker has 42 cookies to pack equally into 6 bags. After packing 2 bags, how many cookies are left in the remaining bags? Let  $c$  represent the cookies in the remaining bags. Which equation shows the correct steps?

- A.  $c = 42 \div 6 \times 4$
- B.  $c = (42 \div 6) \times (6 - 2)$
- C.  $c = 42 - 2 \times 6$
- D.  $c = 6 \times 2 - 42$

7) This array has 2 rows. Each row has 50 squares. How many squares in total?



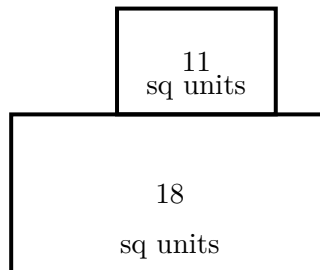
$2 \times 50 = ?$

- A. 52
- B. 25
- C. 100
- D. 1000

8) Kai has 20 toy cars. He puts 5 toy cars in each group. Which division shows the number of groups?

- A.  $20 \div 5 = 4$
- B.  $20 \div 4 = 4$
- C.  $20 + 5 = 25$
- D.  $20 - 5 = 15$

9) A composite shape has areas of 18 sq units and 11 sq units. Find the total area.



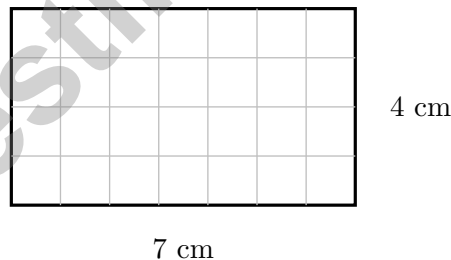
- A. 29 sq units
- B. 18 sq units
- C. 7 sq units
- D. 198 sq units



Scan me!  
For more practice & answers



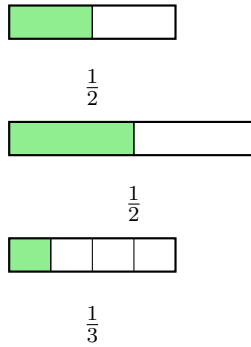
- 1) Maya wants to find  $298 + 145$  using the “make a friendly number” strategy. Which equation shows the best first step?
- A.  $(300 - 2) + 145 = 298 + 145$        C.  $(300 + 145) - (2 + 145) = 298 + 145$   
 B.  $298 + (150 - 5) = 298 + 145$        D.  $298 + 145 = (290 + 140) + (8 + 5)$
- 2) Which pair of equations shows the commutative property with 3, 4, and 12?
- A.  $3 + 4 = 7$  and  $4 + 3 = 7$        C.  $12 - 3 = 9$  and  $12 - 4 = 8$   
 B.  $3 \times 3 = 9$  and  $4 \times 3 = 12$        D.  $3 \times 4 = 12$  and  $4 \times 3 = 12$
- 3) Which comparison is true?
- A.  $\frac{2}{8} < \frac{2}{6}$        C.  $\frac{2}{8} = \frac{2}{6}$   
 B.  $\frac{2}{8} > \frac{2}{6}$        D.  $\frac{2}{6} < \frac{2}{8}$
- 4) A store has 3 shelves with 12 books on each shelf. Plus 9 more books on a table. What is the total number of books?
- A. 24       C. 45  
 B. 36       D. 63



- 5)
- Count the grid squares to find the area.
- A. 11 sq cm       C. 28 sq cm  
 B. 22 sq cm       D. 35 sq cm

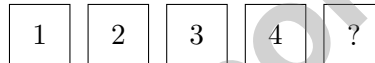


6) Look at the bars. Which statement is **NOT** true?



- A. The first and second are equivalent
- B. The first bar shows  $\frac{1}{2}$
- C. All three show the same amount
- D. The third bar is smaller

7)



Which number should replace the ?

- A. 5
- B. 6
- C. 7
- D. 8

8) Round 537 to the nearest 10. What is the answer?



Scan me!  
For more practice  
& answers

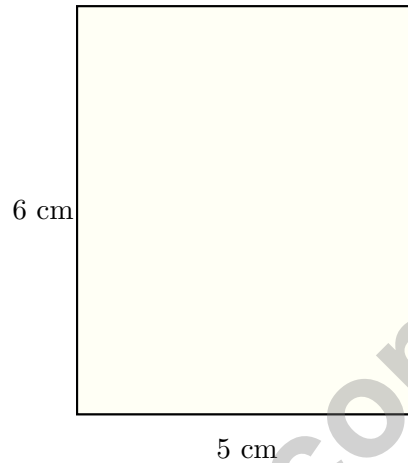
1) Which number rounds to 400 when rounded to the nearest 100?

A. 349

C. 449

B. 345

D. 451



2)

A rectangular notebook is 5 centimeters wide and 6 centimeters tall. Find the area.

A. 11 sq cm

C. 22 sq cm

B. 30 sq cm

D. 60 sq cm

3) Noah has 24 pencils to put in 3 boxes equally. How many pencils go in each box?

A. 6 pencils

C. 8 pencils

B. 7 pencils

D. 9 pencils



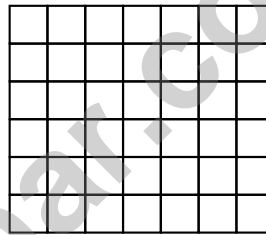


4)

How many small squares are in this array?

- A. 8 squares                       C. 12 squares  
 B. 7 squares                       D. 10 squares

5) A teacher shows this grid to her class:



She tells students: "There are 8 unit squares along the top and 6 unit squares down the side. So the area is  $8 + 6 = 14$  square units." Is the teacher correct?

- A. Yes, because  $8 + 6 = 14$                        C. No, the area is 14 unit squares  
 B. No, the area is 48 unit squares                       D. Yes, adding the sides gives the area

6) What number makes the equation true?

$$63 \div \square = 7$$

- A. 7     C. 8  
 B. 10     D. 9



Scan me!  
For more practice  
& answers

## Practice Test Answer Keys

**How to use this section with a Grade 3 student:**

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

**A calm correction routine builds stronger math habits.**

Testinar.com



Scan me!  
For more practice  
& answers

## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice B is correct.** **3.3(C)** A whole divided into 6 equal sections has each section as  $\frac{1}{6}$  (one-sixth).
- Choice D is correct.** **3.4(H)**  $35 \div 7 = 5$ . The blocks are divided equally among the friends.
- Choice A is correct.** **3.3(C)** The first tick of eight equal parts is at the unit fraction  $\frac{1}{8}$ .
- Choice D is correct.** **3.6(C)** Area =  $10 \times 6 = 60$  square centimeters.
- Choice D is correct.** **3.4(K)** Divide:  $42 \div 6 = 7$  kennel rooms needed.
- Choice B is correct.** **3.4(A)** Step 1: Cookies per bag:  $42 \div 6 = 7$  cookies. Step 2: Remaining bags:  $6 - 2 = 4$  bags. Total in remaining:  $7 \times 4 = 28$  cookies. Choice B is clearest with parentheses.
- Choice C is correct.** **3.4(A)** 2 rows of 50 squares =  $2 \times 50 = 100$  squares. Multiply  $2 \times 5 = 10$ , then multiply by 10 to get 100.
- Choice A is correct.** **3.5(D)** There are 20 toy cars with 5 in each group, so  $20 \div 5 = 4$  groups.
- Choice A is correct.** **3.6(D)** Add the areas:  $18 + 11 = 29$  square units. Choice B (only one part) and C (subtraction) are common errors.
- Choice A is correct.** **3.8(B)** Red:  $2 \times 5 = 10$ . Blue:  $3 \times 5 = 15$ . Green:  $4 \times 5 = 20$ . Total:  $10 + 15 + 20 = 45$ .
- Choice D is correct.** **3.4(A)** 42 ends in 2, not 0 or 5, so it is not a multiple of 5. All others end in 0 or 5.
- Choice A is correct.** **3.4(B)** The ones digit is 4. Since  $4 < 5$ , round down: 254 rounds to 250.
- Choice B is correct.** **3.3(G)** The denominator was multiplied by 2 (from 3 to 6). Multiply the numerator by 2:  $2 \times 2 = 4$ . So  $\frac{2}{3} = \frac{4}{6}$ .
- Choices B and C are correct.** **3.7(B)** Option B:  $P = 2(6) + 2(5) = 22$  in. Option C:  $P = 2(10) + 2(1) = 22$  in. Option A is 20 in, option D is 18 in, and option E is 24 in.
- Choice D is correct.** **3.6(D)**  $9 \times 9 = 81$  unit square tiles.
- Choice B is correct.** **3.6(C)** Area = length  $\times$  width =  $11 \times 3 = 33$  square inches.
- Choice C is correct.** **3.5(A)** Add:  $1000 + 800 = 1800$  g.
- Choice D is correct.** **3.4(D)**  $9 \times 2$  means 9 groups of 2, so  $2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 18$ .
- Choice A is correct.** **3.7(C)** From 9 : 15 to 10 : 15 is 60 minutes. The class ends at 10 : 05, 10 minutes earlier:  $60 - 10 = 50$  minutes. Distractor C (just adds 1 hour), B (off-by-5), D (subtracts too much).
- Choice A is correct.** **3.2(C)** Four hops of  $\frac{1}{4}$  each =  $4 \times \frac{1}{4} = 1$ . The frog lands at 1.
- The correct answer is  $70\frac{1}{2}$ .** **3.7(A)** The value with the most X marks is  $70\frac{1}{2}$ , with 3 X's.
- Choice C is correct.** **3.6(C)** A  $6 \times 2$  arrangement of unit squares has area  $6 \times 2 = 12$  square units.
- Choice B is correct.** **3.6(D)** The shaded rectangle is 5 units wide and 2 units tall.  $5 \times 2 = 10$  square units.
- The correct answer is 1.** **3.3(G)** When numerator = denominator, the fraction equals 1 whole.  $\frac{5}{5} = 1$ .
- Choice B is correct.** **3.6(B)** A trapezoid is defined by having exactly one pair of parallel sides. This is what makes it different from a parallelogram.
- Choice A is correct.** **3.3(H)** Four fourths equals 1. Four halves equals 2. Since  $1 < 2$ , we have  $\frac{4}{4} < \frac{4}{2}$ .
- Choice C is correct.** **3.7(A)**  $\frac{7}{8}$  means 7 out of 8 equal parts, which is the seventh tick mark from 0.
- Choice C is correct.** **3.6(C)** Wide rectangle:  $8 \times 3 = 24$  square units.
- Choice D is correct.** **3.4(K)** If  $4 \times 9 = 36$ , then  $36 \div 9 = 4$ . Multiplication and division are inverse operations.
- The correct answer is 20 square units.** **3.4(E)** The grid shows 5 columns and 4 rows. Area =  $5 \times 4 = 20$  square units. You can also add by rows:  $5 + 5 + 5 + 5 = 20$  (four rows of five).



Star Player Pep Talk

---

## Hi, Star Player!

◇ 3 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 3 tests. It's real now! ★

### Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

**Star tip:** on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Coach

# 3 GRADE 3 MATH PRACTICE TESTS

Practice Today. Succeed Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

## What's Inside?



### Standards-Aligned Practice

Questions designed to cover essential Grade 3 math standards.



### Variety of Question Types

Multiple-choice, short answer, and more to build well-rounded skills.



### Real-World Applications

Engaging problems that connect math to everyday life.



### Step-by-Step Progress

Track improvement and build confidence with every test.



### Build Skills & Boost Confidence

Strengthen understanding and feel prepared for test day.

## COVERS ALL ESSENTIAL 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!



More Grade 3 Math Resources & Practice Materials

[testinar.com/math3](https://testinar.com/math3)

**PRACTICE. PREPARE. SUCCEED.**