

# 7

# Texas

# STAAR

## Grade 3 MATH

## PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations



7 Full-Length  
Practice Tests



Standards-Aligned  
Math Practice



Detailed Answer Keys  
and Explanations



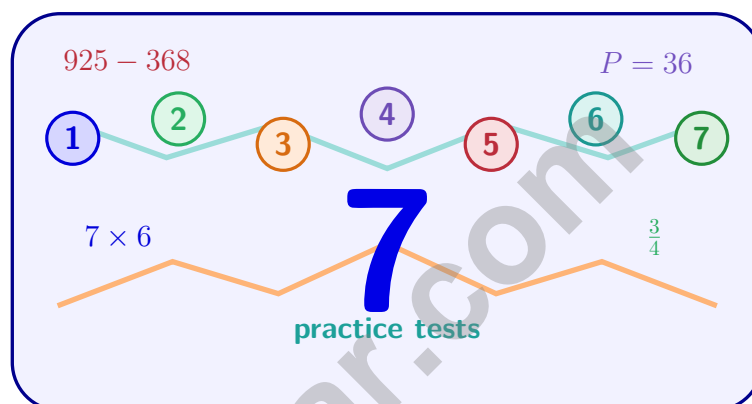
Build Confidence.  
Achieve Success.

PREPARE  
PRACTICE  
SUCCEED



# 7 Texas STAAR Grade 3 Math Practice Tests

*Standards-Aligned Practice with Review, Answer Keys, and Explanations*



Seven complete 30-question practice trails for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome to the Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

## To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Texas STAAR. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

Texas has wide ranch roads, Gulf beaches, city skylines, starry plains, and big classroom goals, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and think big while checking small details.

### Scout

Find what the problem is asking before you calculate.

### Solve

Pick an equation, model, array, graph, or number line.

### Prove

Check the answer and explain the thinking clearly.

**Seven-trail promise:** I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

# How to Use This Book

## A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For Texas students, each trail moves through wide ranch roads, Gulf beaches, city skylines, starry plains, and big classroom goals: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

**Best review habit:** A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



## What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Texas Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Texas STAAR path.

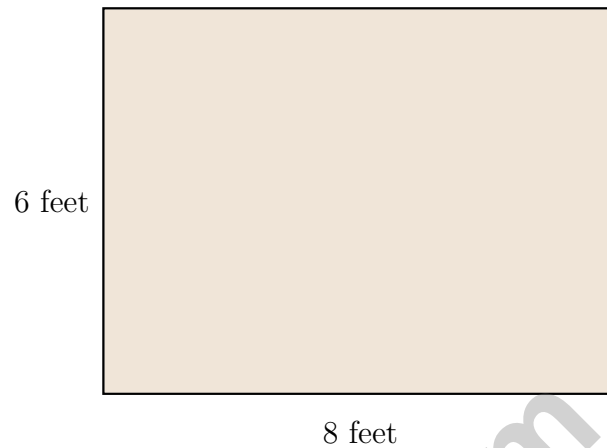


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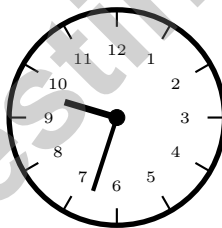
★ Practice Test 1	_____	14
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<b>Practice Test Answers and Explanations</b>	_____	<b>103</b>

- 1) Lily is building a sandbox for her backyard. The sandbox is 8 feet long and 6 feet wide. What is the area of the sandbox?

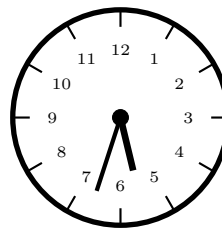


- A. 48 sq ft
- B. 28 sq ft
- C. 14 sq ft
- D. 56 sq ft
- 2) Which clock shows 9 : 33?

Clock A



Clock B



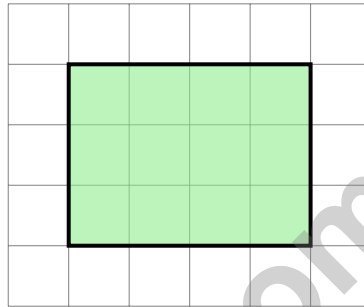
- A. Clock A
- B. Clock B
- C. Neither
- D. Both



3) Which expression shows the same product as  $2 \times 9$ ?

- A. 11 objects in a row                       C.  $9 \times 9$   
 B.  $2 + 9$                                        D.  $9 \times 2$

4) Count the shaded square units on this grid without using multiplication. Is it possible?



- A. Yes, you can count them one by one                       C. Only if the shape is a square  
 B. No, you must multiply                                       D. Only if you know the perimeter
- 5) Ava multiplies 6 by 1. What property of multiplication is this?

- A. Commutative property                       C. Distributive property  
 B. Associative property                       D. Identity property

6) Which equation is in the same fact family as  $6 \times 7 = 42$ ?

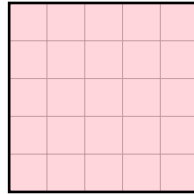
- A.  $42 \div 6 = 7$                                        C.  $7 \times 6 = 41$   
 B.  $42 \div 5 = 8$                                        D.  $42 \div 7 = 7$



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1) This rectangle on a grid has how many unit squares?



- A. 20 sq units                       C. 30 sq units  
 B. 25 sq units                       D. 35 sq units

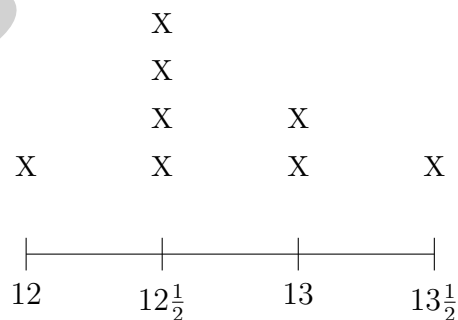
2) Noah uses  $3 \times (4 + 5)$ . Which shows this same problem using the distributive property?

- A.  $(3 \times 4) + (3 \times 5)$                        C.  $(3 + 4) \times 5$   
 B.  $3 + 4 + 5$                                        D.  $3 + (4 + 5)$

3) Eli covers a wall with unit square tiles. The wall measures 3 units by 10 units. How many tiles does he need?

- A. 20 tiles                                       C. 60 tiles  
 B. 13 tiles                                       D. 30 tiles

4) A line plot shows ruler lengths in inches:  $12$ ,  $12\frac{1}{2}$ ,  $13$ ,  $13\frac{1}{2}$ .



What is the most frequent ruler length?

- A. 12 inches                                       C. 13 inches  
 B.  $12\frac{1}{2}$  inches                                       D.  $13\frac{1}{2}$  inches



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5) What multiplication sentence helps you solve  $21 \div 3$ ?

A.  $3 \times 7 = 21$

C.  $3 \times 8 = 24$

B.  $3 \times 6 = 18$

D.  $3 \times 9 = 27$

6) A rectangular painting is 12 inches wide and 6 inches tall. What is the area of the painting?

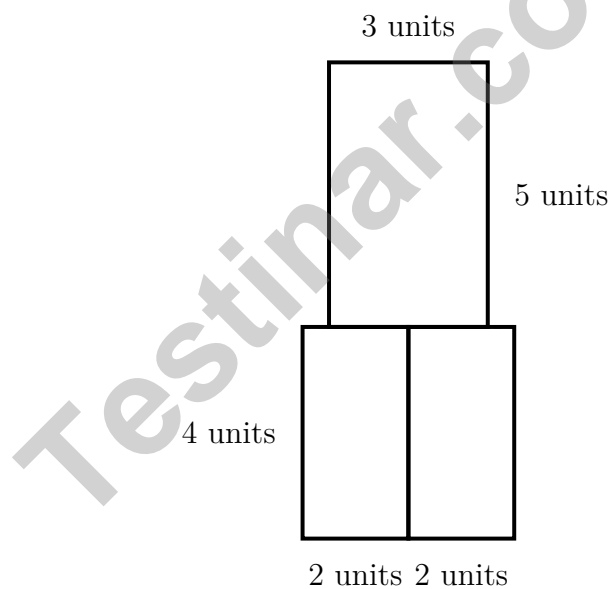
A. 36 sq in

C. 18 sq in

B. 72 sq in

D. 66 sq in

7) A T-shaped banner has three parts with lengths and widths: 3 units by 5 units (top), 2 units by 4 units (bottom left), and 2 units by 4 units (bottom right). What is the total area?



A. 15 sq units

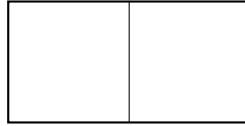
C. 31 sq units

B. 24 sq units

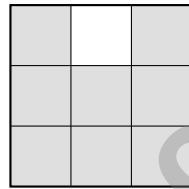
D. 120 sq units



- 1) A shape is divided into equal parts so that each part is  $\frac{1}{2}$  of the whole. How many equal parts is the shape divided into?



- A. 1 part                                       C. 3 parts  
 B. 2 parts                                       D. 4 parts
- 2) Eli sees a checkerboard with a  $3 \times 3$  pattern of unit squares. How many unit squares are on the board?



- A. 6 unit squares                               C. 9 unit squares  
 B. 8 unit squares                               D. 12 unit squares
- 3)  $418 + 275 = ?$
- A. 693     C. 683  
 B. 792     D. 783
- 4) A rope is shown on a number line from 0 to 1 with 8 equal sections. Eli marks off one section. What fraction of the rope is one section?
- A.  $\frac{1}{8}$      C.  $\frac{8}{8}$   
 B.  $\frac{1}{7}$      D.  $\frac{2}{8}$



5) Ava is decorating her bedroom wall with a rectangular poster. The poster is 11 inches wide and 9 inches tall. What is the area of the poster?

- A. 99 sq in                       C. 20 sq in  
 B. 40 sq in                       D. 110 sq in

6) Look at this sequence: 20, 25, 30, 35, 40.  
What is the rule?

- A. Subtract 5 each time                       C. Multiply by 2 each time  
 B. Skip count by 3                               D. Add 5 each time

7) Look at the skip-count number line. It shows counting by 3s. What number is missing?



What is  $3 \times 3$ ?

- A. 6                                       C. 12  
 B. 15                                       D. 9

8) When you round 45 to the nearest 10, why does the ones digit matter more than the hundreds digit?

- A. Because we are rounding to the nearest 10, not the nearest 100                       C. Because 45 is a large number  
 B. Because the ones digit is always bigger                                       D. Because 50 is better than 40



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## 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 turns every missed item into useful practice.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice A is correct.** **3.6(C)** Area = length  $\times$  width =  $8 \times 6 = 48$  square feet.
- Choice A is correct.** **3.7(C)** At 9 : 33, the minute hand points to 33 minutes, just past the 6. The hour hand is between 9 and 10. Clock A shows this correctly.
- Choice D is correct.** **3.4(D)**  $2 \times 9$  and  $9 \times 2$  both equal 18 by the commutative property of multiplication.
- Choice A is correct.** **3.6(D)** You can count the squares directly by pointing at each one (16 total). You can also multiply:  $4 \times 4 = 16$ . Counting and multiplying are both valid ways to find area.
- Choice D is correct.** **3.4(A)** The identity property of multiplication says any number times 1 equals itself.  $6 \times 1 = 6$ .
- Choice A is correct.** **3.5(D)** Both  $6 \times 7 = 42$  and  $42 \div 6 = 7$  are in the same fact family.
- Choice C is correct.** **3.5(A)** Multiply:  $4 \times 250 = 1000$  mL.
- Choice C is correct.** **3.4(B)** The tens digit is 5. Since  $5 \geq 5$ , round up: 156 rounds to 200.
- Choice B is correct.** **3.4(E)** Area =  $5 \times 2 = 10$  square meters. This is 5 rows of 2 unit squares (or  $2+2+2+2+2 = 10$ ).
- Choice B is correct.** **3.3(C)** The rectangle is divided into 6 equal parts. One part is shaded, so the shaded fraction is  $\frac{1}{6}$  (one-sixth).
- Choice D is correct.** **3.4(A)** Each number increases by 6. These are multiples of 6:  $36 + 6 = 42$ .
- Choice A is correct.** **3.4(A)** Step 1: Find total pencils:  $5 \times 6 = 30$ . Step 2: Subtract:  $30 - 10 = 20$  pencils. (Choice C is the answer to step 1 only—students must complete both steps.)
- Choice B is correct.** **3.3(H)** Visual reasoning: same numerator (2), so both take 2 pieces. But  $\frac{2}{3}$  divides the whole into 3 parts (each third is large), while  $\frac{2}{6}$  divides into 6 parts (each sixth is small). Comparing shaded amounts: 2 large pieces  $>$  2 small pieces, so  $\frac{2}{3} > \frac{2}{6}$ .
- Choice B is correct.** **3.6(C)** A  $6 \times 1$  grid contains exactly 6 unit squares arranged in a row.
- Choices A and C are correct.** **3.4(K)** A:  $48 \div 6 = 8$  and  $8 \times 6 = 48$  match. B:  $35 \div 7 = 5$ , not 4. C:  $56 \div 8 = 7$  and  $7 \times 8 = 56$  match. D:  $30 \div 5 = 6$  but  $6 \times 5 = 30$ , not 25. E:  $45 \div 9 = 5$  but  $5 \times 9 = 45$ , not 40.
- The correct answer is 45 students.** **3.8(B)** Soccer:  $4 \times 5 = 20$ . Basketball:  $3 \times 5 = 15$ . Kickball:  $2 \times 5 = 10$ . Total:  $20 + 15 + 10 = 45$ .
- Choice C is correct.** **3.6(D)** 6 wide and 2 tall:  $6 \times 2 = 12$  unit squares.
- The correct answer is 6.** **3.3(G)**  $\frac{12}{2}$  means 12 halves. 2 halves make 1 whole, so  $12 \div 2 = 6$  wholes.
- Choice D is correct.** **3.4(K)** Noah, his 2 friends = 3 people total. Divide:  $18 \div 3 = 6$  crayons each.
- Choice B is correct.** **3.7(A)** At least  $6\frac{1}{4}$  means  $6\frac{1}{4}$  and longer:  $3 + 1 + 1 + 1 = 6$  ropes.
- Choice A is correct.** **3.6(B)** Shapes with 4 sides and 4 right angles are rectangles. A square is a special rectangle with all equal sides. Rhombuses and trapezoids do not require right angles.
- Choice A is correct.** **3.3(G)**  $\frac{1}{2} = \frac{4}{8}$  because  $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$ . Both Ava and Ben ate the same amount.
- Choice D is correct.** **3.4(A)** Ones:  $7 + 5 = 12$  (write 2, carry 1). Tens:  $6 + 1 + 1 = 8$ . Hundreds:  $3 + 2 = 5$ . Answer: 582.
- Choice D is correct.** **3.7(A)** This number line has thirds (3 equal parts), so only fractions with denominator 3 or 1 are tick marks.  $\frac{1}{4}$  would need 4 equal parts.
- Choice C is correct.** **3.3(G)**  $\frac{3}{4}$  is not equivalent to  $\frac{4}{8}$ , which equals  $\frac{1}{2}$ . The other choices all name three-fourths.
- The correct answer is 32 square units.** **3.6(C)**  $5 + 3 = 8$ , and  $4 \times 8 = 32$  square units.
- Choice D is correct.** **3.5(D)** Dividing 16 pencils into 4 equal boxes means  $16 \div 4 = \square$ . Since  $4 \times 4 = 16$ , each box has 4 pencils.
- Choice B is correct.** **3.6(D)** Add the areas:  $21 + 18 = 39$  square units.



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## Hi, Math Athlete!

◇ 7 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

### Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

**Trainer tip:** on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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 Trainer

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# PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



## EACH PRACTICE TEST INCLUDES:



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Questions



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Types



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Progress  
Tracking



Build Skills  
and Boost  
Confidence

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