

5

Texas

STAAR

GRADE 3

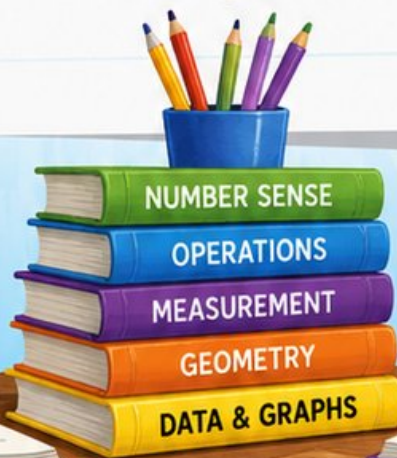
MATH

PRACTICE TESTS

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

$24 \div 3 = 8$

$125$   
 $+ 37$   
-----



5 FULL-LENGTH  
PRACTICE TESTS



STANDARDS-  
ALIGNED  
PRACTICE



DETAILED  
ANSWER KEYS



CLEAR  
EXPLANATIONS  
TO HELP YOU SUCCEED

# 5 Texas STAAR Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Five focused 30-question checkpoints for Grade 3 math: facts, 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 Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

## To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Texas STAAR. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Texas has wide roads, bright cities, ranch trails, and big goals that need clear plans. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

### Notice

Circle key words, units, and numbers before you start.

### Build

Use arrays, number lines, equations, tables, or sketches.

### Verify

Ask, “Does this answer fit the question?”

**Five-checkpoint promise:** I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

# How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

**Best review habit:** Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



# What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	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. That mix gives students practice with quick choices, careful reasoning, and short written answers.



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For more practice  
& answers

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1) Which equation matches the tiling shown by a rectangle with one line cutting it vertically into two parts?

A.  $7 \times (3 + 2) = (7 \times 3) + (7 \times 2)$

C.  $7 + 3 + 2 = 12$

B.  $3 \times 2 = 6$

D.  $(3 \times 7) + (2 \times 7) = 35 + 14$

2) A student read  $\frac{4}{1}$  books. How many whole books?

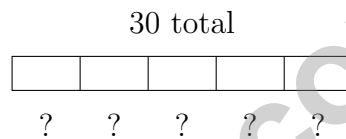
A.  $\frac{1}{4}$

C. 1

B. 4

D. 8

3) Which division equation matches this bar model showing 30 split into 5 equal parts?



A.  $30 \times 5 = 150$

C.  $5 + 6 = 11$

B.  $30 - 5 = 25$

D.  $30 \div 5 = 6$

4) Eli has 24 marbles. He makes 6 equal piles. How many marbles are in each pile?

A. 3

C. 5

B. 6

D. 4

5) A rectangular whiteboard is 11 feet wide and 5 feet tall. What is the area of the whiteboard?

A. 32 sq ft

C. 55 sq ft

B. 110 sq ft

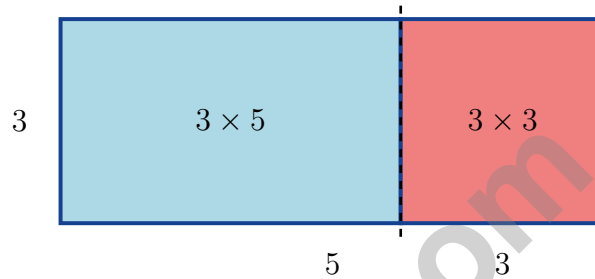
D. 16 sq ft





9) Find  $72 \div 9$ .

10) Mia splits a rectangle to show  $3 \times 8 = 3 \times (5 + 3)$ .



What is  $3 \times 5 + 3 \times 3$ ?

A. 14

B. 20

C. 27

D. 24

11) Which missing-addend number sentence matches this situation? “Eli had 350 points. After losing some points, he has 127 points left. How many points did he lose?”

A.  $127 + ? = 350$

B.  $350 + 127 = ?$

C.  $350 - 127 = 127$

D.  $? - 350 = 127$



1) Sam has a rectangular garden that is 12 units long and 2 units wide. What is the area of the garden?

- A. 14 sq units
- B. 24 sq units
- C. 36 sq units
- D. 48 sq units



2)

What repeated addition matches this array?

- A.  $4 + 3 + 3 = 10$
- B.  $3 + 3 + 3 = 9$
- C.  $3 + 4 = 7$
- D.  $4 + 4 + 4 = 12$

3) On this number line, the distance from 0 to 1 is divided into 6 equal parts. The point shown is at which fraction?



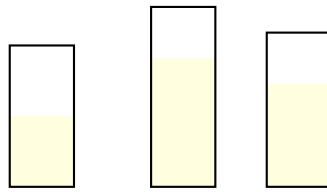
- A.  $\frac{1}{6}$
- B.  $\frac{2}{6}$
- C.  $\frac{3}{4}$
- D.  $\frac{4}{6}$



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**Three Containers**

Container A   Container B   Container C



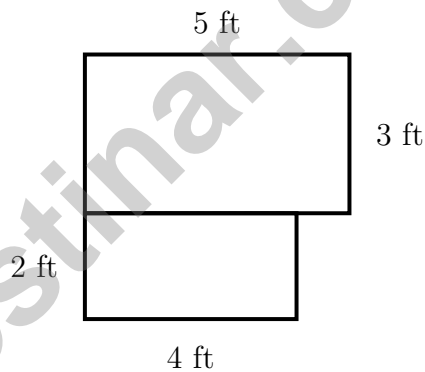
250 mL   500 mL   400 mL

4)

Which container holds the least amount of liquid?

- A. Container A
- B. Container B
- C. Container C
- D. All hold the same

5) An L-shaped room plan shows two rectangles. Top: 5 ft by 3 ft. Bottom: 4 ft by 2 ft. What is the total floor area?



- A. 15 sq ft
- B. 8 sq ft
- C. 120 sq ft
- D. 23 sq ft

1) Which picture shows 12 items divided equally into 4 groups?

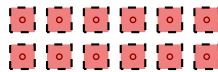
- A. Four groups of two



- B. Three groups of four



- C. Twelve groups of one



- D. Four groups of three



2) Which fraction is equal to 1 whole?

- A.  $\frac{6}{2}$        C.  $\frac{4}{3}$   
 B.  $\frac{3}{3}$        D.  $\frac{2}{3}$

3) A multiplication table row for 8 shows: 8, 16, 24, 32, 40.

What is the rule for this pattern?

- A. Add 8 each time (multiply 8 by 1, 2, 3, 4, 5)       C. Add the position number  
 B. Double each number       D. Subtract 8 each time

4) Ben is covering a counter with square tiles. The counter is 8 tiles long and 3 tiles wide. How many tiles does he need?

- A. 11 tiles       C. 16 tiles  
 B. 24 tiles       D. 5 tiles



5) What number makes the equation true?

$$\square \times 7 = 42$$

A. 8

C. 5

B. 7

D. 6

6) Which tiling shows  $4 \times (7 + 5) = (4 \times 7) + (4 \times 5)$ ?

A. A tall rectangle with width 4 split into two parts: top part is  $4 \times 7$ , bottom is  $4 \times 5$

C. A wide rectangle with height 5 split into parts

B. A tall rectangle with width 7 split into two parts

D. One  $4 \times 12$  rectangle

7) A rectangle has area 20 square feet. Its length is 5 feet. What is its width?

A. 3 feet

C. 5 feet

B. 4 feet

D. 15 feet

8) Which shape is always a rhombus, but NOT always a square?

A. Rectangle

C. Trapezoid

B. Rhombus with angles that are not right angles

D. Pentagon

9) A number line from 0 to 1 is divided into 3 equal parts. The unit fraction is  $\frac{1}{3}$ . Where is the second tick from 0?

A.  $\frac{1}{3}$  (the unit fraction)

C.  $\frac{1}{6}$

B.  $\frac{2}{3}$  (two unit fractions)

D.  $\frac{3}{3}$



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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

- 1) **Choice A is correct.** **(3.MD.C.7c)** A vertical line in a rectangle splits its width or length. Here the length is 7 and the other dimension splits into 3 + 2.
- 2) **Choice B is correct.** **(3.NF.A.3c)**  $\frac{4}{1} = 4$ . Any whole number over 1 equals that number.
- 3) **Choice D is correct.** **(3.OA.B.6)** A bar model dividing a total into equal parts shows division. 30 split into 5 equal parts means each part is  $30 \div 5 = 6$ .
- 4) **Choice D is correct.** **(3.OA.A.2)**  $24 \div 6 = 4$ . Divide the total marbles by the number of piles.
- 5) **Choice C is correct.** **(3.MD.C.7b)** Area = width  $\times$  height =  $11 \times 5 = 55$  square feet.
- 6) **Choice A is correct.** **(3.MD.B.4)** The most common diameter is 2 inches because it has 3 X's, which is more than any other value.
- 7) **Choice A is correct.** **(3.NF.A.3a)** Both bars show the same shaded region (one-half of each bar). They are equivalent fractions.
- 8) **Choice C is correct.** **(3.MD.B.3)** Count the stars and multiply by the scale:  $3 \times 2 = 6$  stickers.
- 9) **The correct answer is 8.** **(3.OA.C.7)**  $72 \div 9 = 8$ .
- 10) **Choice D is correct.** **(3.OA.B.5)**  $3 \times 5 = 15$  and  $3 \times 3 = 9$ , so  $15 + 9 = 24$ . The distributive property shows  $3 \times (5 + 3) = 24$ .
- 11) **Choice A is correct.** **(3.NBT.A.2)** This is a missing-addend equation: start with the 127 points left and add the missing amount to get back to 350.
- 12) **Choice B is correct.** **(3.NF.A.2)** Count: Start at tick 1 ( $\frac{1}{4}$ ), move 2 ticks right ( $1+2=3$ ). Land at tick 3, which is  $\frac{3}{4}$ .
- 13) **Choice C is correct.** **(3.MD.A.2)** 5 L = 5000 mL. Divide:  $5000 \div 200 = 25$  glasses. Tests estimation.
- 14) **Choice B is correct.** **(3.MD.C.7d)** Add the areas:  $28 + 16 = 44$  square units.
- 15) **Choice C is correct.** **(3.NF.A.3b)** The denominator was multiplied by 2 (from 4 to 8). Multiply the numerator by 2:  $3 \times 2 = 6$ . So  $\frac{3}{4} = \frac{6}{8}$ .
- 16) **Choices B and C are correct.** **(3.OA.A.4)** Choice B is true because  $48 \div 6 = 8$ . Choice C is true because  $7 \times 7 = 49$ . Choice A is false ( $6 \times 8 = 48$ , not 42). Choice D is false ( $54 \div 9 = 6$ , not 5). Choice E is false ( $4 \times 9 = 36$ , not 35).
- 17) **Choice B is correct.** **(3.NF.A.2b)** Five hops of  $\frac{1}{2} = 5 \times \frac{1}{2} = \frac{5}{2} = 2.5$ .
- 18) **Choice D is correct.** **(3.OA.D.9)** List B increases by 1, then 2, then 3, then 4 (no constant rule). The others are skip-count patterns.
- 19) **The correct answer is 70 mats.** **(3.MD.C.5b)** Count the rows: 7 rows of mats. Count across: 10 mats per row. Total:  $10 + 10 + 10 + 10 + 10 + 10 + 10 = 70$  square meter mats are needed.
- 20) **Choice B is correct.** **(3.NF.A.3d)** Same numerator: sixths are bigger pieces than eighths. Two sixths is greater than two eighths.
- 21) **Choice A is correct.** **(3.NF.A.2a)** Four internal tick marks create 5 equal parts total. The first tick is at the unit fraction  $\frac{1}{5}$ .
- 22) **Choice B is correct.** **(3.NF.A.1)** When you add three unit fractions of  $\frac{1}{4}$ , you get  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$ .
- 23) **Choice B is correct.** **(3.MD.C.5)**  $4 \times 5 = 20$  square units. The other options give:  $2 \times 8 = 16$ ,  $3 \times 6 = 18$ ,  $2 \times 9 = 18$ .
- 24) **Choice B is correct.** **(3.MD.C.7)** The diagram shows length 4 and width 3. Area =  $4 \times 3 = 12$  square units. You can also add:  $3 + 3 + 3 + 3 = 12$  (four rows of three).
- 25) **Choice B is correct.** **(3.MD.C.5a)** Option B is  $2 \times 3 = 6$  unit squares. Option A has 3 unit squares, Option C has 4, and Option D has 5.
- 26) **Choice A is correct.** **(3.OA.D.8)** Step 1: Total stickers:  $4 \times 9 = 36$  stickers. Step 2: Share equally:  $36 \div 6 = 6$  stickers per friend.
- 27) **Choice C is correct.** **(3.NBT.A.3)** Multiply  $6 \times 5 = 30$ , then add one zero:  $6 \times 50 = 300$ .
- 28) **Choice D is correct.** **(3.OA.A.1)**  $8 \times 2$  means 8 groups of 2 objects each, for a total of 16 objects.
- 29) **Choice C is correct.** **(3.MD.A.1)** From 3 : 34 to 4 : 34 is 1 hour or 60 minutes. From 4 : 19 to 4 : 34 is 15 minutes. So from 3 : 34 to 4 : 19 is  $60 - 15 = 45$  minutes.



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## Hi, Brave Explorer!

◇ What a trip! You explored 5 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 5 tests, you learned a lot. You are a stronger math explorer now. ★

### Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

**Explorer tip:** on test day, use the tools you packed. You have the skills. You are ready!

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 Trail Guide

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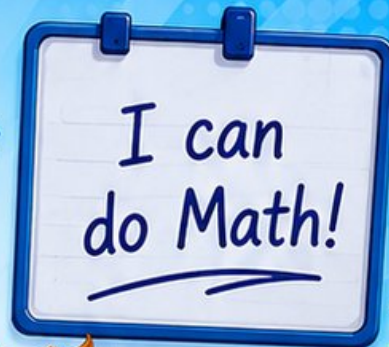
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- ✓ And More!



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$$\begin{array}{r} 7 \times 8 \\ \hline = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ -178 \\ \hline = 274 \end{array}$$



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