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# 10 Texas STAAR




## GRADE 3

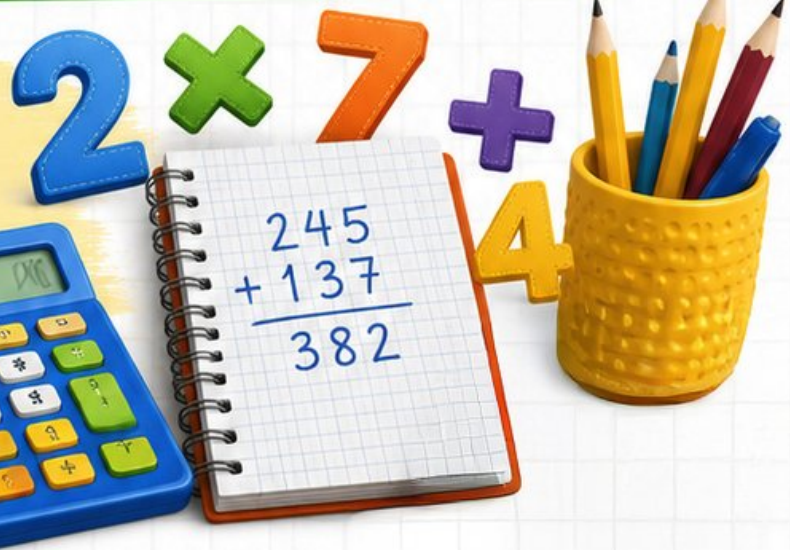
# MATH



## PRACTICE TESTS



- ✓ Complete Standards Review
  - ✓ Skill Practice
  - ✓ Word Problems and Answer Key
- 



★ ★ ★  
**PREPARE  
PRACTICE  
SUCCEED!**  
★ ★ ★



Aligned to  
Grade 3 Math  
Standards



Build Confidence  
and Master  
Math Skills



Test-Taking  
Practice for  
Success



Answer Key  
for Easy  
Review

# 10 Texas STAAR Grade 3 Math Practice Tests

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



Ten complete 30-question Grade 3 practice rounds for STAAR, built around wide ranch roads, city lights, and bold math stamina, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Texas Math Explorer!

Ten steady rounds on the Lone Star math route

This book gives you ten full Grade 3 practice tests for STAAR. Each round uses wide ranch roads, city lights, and bold math stamina to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## Texas Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

# How to Use This Book

A ten-session routine for Texas STAAR review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Lone Star math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Good rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



## What Is Inside?

Ten tests, 300 questions, and a full STAAR review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Texas book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.

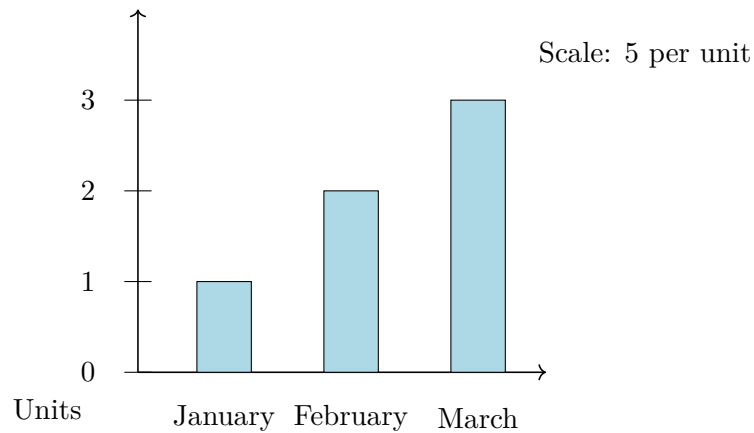


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For more practice  
& answers

# Table of Contents

★ Practice Test 1	_____	16
★ Practice Test 2	_____	28
★ Practice Test 3	_____	41
★ Practice Test 4	_____	52
★ Practice Test 5	_____	64
★ Practice Test 6	_____	78
★ Practice Test 7	_____	92
★ Practice Test 8	_____	105
★ Practice Test 9	_____	117
★ Practice Test 10	_____	129
<b>Practice Test Answer Keys</b>	_____	<b>140</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>146</b>

1) Look at the bar graph. Which statement about the bars is true?



- A. March is the shortest bar.       C. March is the tallest bar.  
 B. January is taller than February.       D. All bars are the same height.
- 2) A rectangular garden plot measures 5 units by 6 units. Ben wants to cover it with unit square pavers. How many pavers will he need without gaps or overlaps?
- A. 11 pavers       C. 22 pavers  
 B. 30 pavers       D. 36 pavers
- 3) Which situation matches “ $14 \div 2$ ?”
- A. 2 items shared among 14 people       C. 14 more than 2  
 B. 14 times 2       D. 14 items divided into groups of 2
- 4) The pattern for multiples of 6: 6, 12, 18, 24, 30, 36.  
What is the rule?
- A. Add 5 each time       C. Double the number  
 B. Skip count by 2       D. Add 6 each time



5) Ava has 3 bags of marbles. Each bag has 7 marbles. How many marbles does Ava have altogether?

A. 10

C. 28

B. 20

D. 21

6) A rectangular flag has dimensions of 7 inches long and 4 inches wide. What is the area of the flag?

A. 22 sq in

C. 28 sq in

B. 56 sq in

D. 11 sq in

7) Ben reads from 2 : 17 to 3 : 05. How many minutes does he read?

8) A rectangular carpet is 10 centimeters long and 5 centimeters wide. What is its area?

A. 15 sq cm

C. 50 sq cm

B. 30 sq cm

D. 55 sq cm

9) Which comparison is true?

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

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

B.  $\frac{3}{3} < \frac{3}{8}$

D.  $\frac{3}{8} = \frac{3}{3}$



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10) Two different rectangles both have areas of 16 square units. Which pair of dimensions is NOT possible?

A.  $4 \times 4$

B.  $2 \times 8$

C.  $3 \times 5$

D.  $1 \times 16$

11) A rectangle has width 4 units and length 5 units. It has 5 rows with 4 unit squares in each row. Using repeated addition:  $4 + 4 + 4 + 4 + 4 = ?$

A. 9 sq units

B. 20 sq units

C. 15 sq units

D. 16 sq units

12) Which two products are equal to each other?

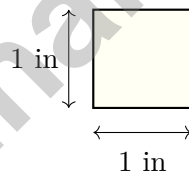
A.  $3 \times 80$  and  $8 \times 30$

B.  $4 \times 50$  and  $5 \times 50$

C.  $6 \times 40$  and  $8 \times 20$

D.  $7 \times 10$  and  $7 \times 20$

13) Which measurement describes a unit square in inches?



A. Side length 2 inches, area 2 square inches

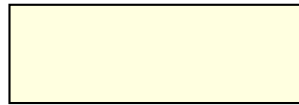
B. Side length 1 inch, area 1 square inch

C. Side length 1 inch, area 2 square inches

D. Side length 2 inches, area 4 square inches



- 1) Look at these two rectangles. Rectangle A is 6 units by 2 units. Rectangle B is 3 units by 4 units. Which has the greater area?



Rectangle A

$6 \times 2$



Rectangle B

$3 \times 4$

- A. Rectangle A  
 B. Rectangle B  
 C. Cannot determine  
 D. They are equal

2)

Water Bottle	Amount
Monday	2 L
Tuesday	1500 mL
Wednesday	2500 mL

On which day did Lily drink the most water?

- A. Monday  
 B. Tuesday  
 C. Wednesday  
 D. All equal



3) Which picture shows 10 items divided equally into 5 groups?

A. Two groups of five



B. One group of ten



C. Ten groups of one



D. Five groups of two



4) Sam has a picture frame that is 6 inches long and 3 inches wide. What is the area of the frame?

A. 9 sq in

C. 15 sq in

B. 18 sq in

D. 24 sq in

5) A line plot shows desk surface measurements in inches: 24,  $24\frac{1}{2}$ , 25,  $25\frac{1}{2}$ , 26. The counts are: 0 at 24 inches, 2 at  $24\frac{1}{2}$  inches, 5 at 25 inches, 1 at  $25\frac{1}{2}$  inches, and 2 at 26 inches. Which measurement appears most often?

A.  $24\frac{1}{2}$  inches

C.  $25\frac{1}{2}$  inches

B. 25 inches

D. 26 inches



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1) Eli multiplies:  $2 \times 4 = 8$ ,  $2 \times 6 = 12$ ,  $2 \times 8 = 16$ .

Why is every product an even number?

- A. Because 2 is an even number
- B. Because we add the numbers together
- C. Because all products are less than 20
- D. Because we are always multiplying by 2, and multiplying by an even number always gives an even product

2) Which of these shows tiling that proves  $3 \times 9 = 3 \times (5 + 4)$ ?

- A. Two rectangles with width 3: one is  $3 \times 5$ , the other is  $3 \times 4$
- B. Two rectangles with width 2: one is  $2 \times 5$ , the other is  $2 \times 4$
- C. A single rectangle  $3 \times 9$
- D. Two rectangles with length 9: one is  $9 \times 3$ , the other is  $9 \times 2$

3) If you divide a line from 0 to 1 into 8 equal parts, what do you call one of those parts?

- A. One eighth
- B. Eight
- C. One half
- D. One whole

4) Find  $80 \div 5 - 2$ .



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Diagonal of a square

5)

The diagonal of a square is drawn. What shape is created on each side of the diagonal?

 A. Rectangle C. Triangle B. Square D. Pentagon

6) Lily shares 18 crayons equally among 6 friends. How many crayons does each friend get?

 A. 2 C. 4 B. 24 D. 3

7) This rectangle is divided into unit squares.



Which multiplication sentence shows the area?

 A.  $5 \times 2 = 10$  C.  $2 \times 2 = 4$  B.  $5 \times 5 = 25$  D.  $7 \times 2 = 14$ 

8) A sack of potatoes weighs 10 kg. A basket of carrots weighs 3000 g. Which weighs more?

 A. Potatoes C. They weigh the same B. Carrots D. Cannot determine

## 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 C is correct.** **3.8(B)** January is 1 unit, February is 2 units, March is 3 units. March is tallest.
- 2) **Choice B is correct.** **3.6(D)**  $5 \times 6 = 30$  unit square pavers.
- 3) **Choice D is correct.** **3.4(H)**  $14 \div 2$  means measuring: How many groups of 2 fit in 14? The answer is 7 groups. This is measurement division (also called quotitive division).
- 4) **Choice D is correct.** **3.4(A)** From 6 to 12 is +6; from 12 to 18 is +6. The constant difference is 6.
- 5) **Choice D is correct.** **3.4(K)** Multiply:  $3 \text{ bags} \times 7 \text{ marbles per bag} = 21 \text{ marbles}$ .
- 6) **Choice C is correct.** **3.6(C)** Area = length  $\times$  width =  $7 \times 4 = 28$  square inches.
- 7) **The correct answer is 48.** **3.7(C)** From 2 : 17 to 3 : 05 is 48 minutes.
- 8) **Choice C is correct.** **3.6(C)** Area =  $10 \times 5 = 50$  square centimeters.
- 9) **Choice A is correct.** **3.3(H)** Three thirds is one whole. Three eighths is less than one whole. So  $\frac{3}{3} > \frac{3}{8}$ .
- 10) **Choice C is correct.** **3.6(D)**  $3 \times 5 = 15$  square units, not 16. The others work:  $4 \times 4 = 16$ ,  $2 \times 8 = 16$ ,  $1 \times 16 = 16$ .
- 11) **Choice B is correct.** **3.4(E)** Adding the width 4 five times:  $4 + 4 + 4 + 4 + 4 = 20$ . This is the same as  $5 \times 4 = 20$  square units.
- 12) **Choice A is correct.** **3.4(A)**  $3 \times 80 = 240$  and  $8 \times 30 = 240$ . Both equal 240. The other pairs have different products.
- 13) **Choice B is correct.** **3.6(C)** A unit square always has a side length of 1 unit and area of 1 square unit, so 1 inch by 1 inch gives area 1 square inch.
- 14) **Choice B is correct.** **3.3(C)** The rectangle is divided into 2 equal parts with 1 shaded, so the fraction is  $\frac{1}{2}$  (one-half).
- 15) **Choices A and D are correct.** **3.4(D)**  $5 \times 3$  means “five groups of three,” giving  $3 + 3 + 3 + 3 + 3 = 15$  (choice A and D are both correct). Choice C is the reverse order (commutative, also equals 15). Choice B is addition. Choice E is incorrect. Technically A, C, and D are all mathematically valid for  $5 \times 3$ , but the most direct answers matching the notation are A (five groups of three) and D (the repeated addition form of five threes).
- 16) **Choice A is correct.** **3.3(G)** Both pies show the same shaded amount.  $\frac{2}{3}$  and  $\frac{4}{6}$  are equivalent.
- 17) **Choice A is correct.** **3.4(A)** Reading the chart: 3 hundreds is 300, 5 tens is 50, 4 ones is 4. Total:  $300 + 50 + 4 = 354$ .
- 18) **Choice C is correct.** **3.4(K)** There are 5 rows with 6 objects in each row.  $5 \times 6 = 30$  objects in total.
- 19) **Choice A is correct.** **3.4(B)** First round 328 to nearest 10: ones digit is  $8 \geq 5$ , so 328 rounds to 330. Then round 330 to nearest 100: tens digit is  $3 < 5$ , so 330 rounds down to 300. This is a two-step rounding process (double rounding).
- 20) **Choice B is correct.** **3.6(B)** A rectangle and a rhombus are both quadrilaterals with 4 sides. They differ in their angles and side lengths.
- 21) **The correct answer is 64 square units.** **3.6(C)**  $8 \times 8 = 64$  square units. Perfect square.
- 22) **Choice B is correct.** **3.6(D)** Add the parts:  $20 + 15 = 35$  square units.
- 23) **The correct answer is  $\frac{6}{8}$ .** **3.3(G)** Multiply the numerator and denominator by 2:  $\frac{3 \times 2}{4 \times 2} = \frac{6}{8}$ .
- 24) **Choice D is correct.** **3.3(G)** Both parts are shaded, so it is  $\frac{2}{2}$ , which equals 1 whole. (A) is only one shaded part. (B) and (C) are not written with correct denominator 2.
- 25) **Choice C is correct.** **3.3(G)**  $\frac{4}{6} = \frac{2}{3}$  because both represent two-thirds of the poster.
- 26) **Choice D is correct.** **3.5(D)** Since  $5 \times 9 = 45$ , the missing factor is 5. In a fact family, the division  $45 \div 9 = 5$  gives the same answer as the missing factor.
- 27) **Choice A is correct.** **3.6(C)** Add the two smaller rectangle areas:  $3 \times 3 = 9$  and  $4 \times 3 = 12$ , so total is 21 square units.
- 28) **Choice B is correct.** **3.7(A)** The point is exactly in the middle between  $\frac{2}{6}$  and  $\frac{4}{6}$ , which is  $\frac{3}{6}$ .
- 29) **Choice D is correct.** **3.4(A)**  $5 \times 6 = 30$  and  $5 \times 3 = 15$ , so  $30 + 15 = 45$ . Also  $5 \times 9 = 45$ .



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★ **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! ★

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- **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).

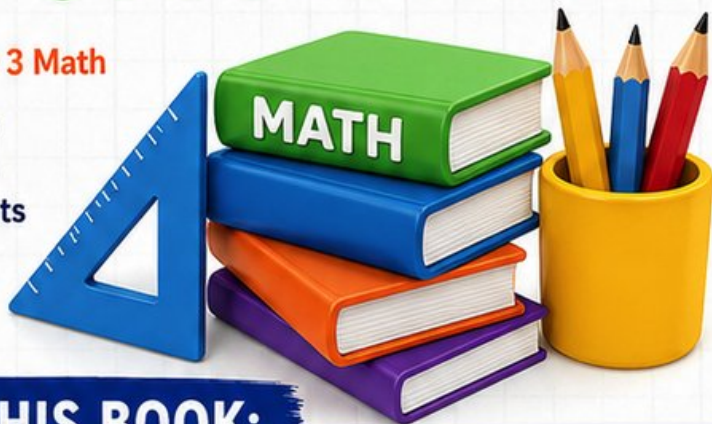
**Jay Daie**

Your Math Trainer

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