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Ohio OST

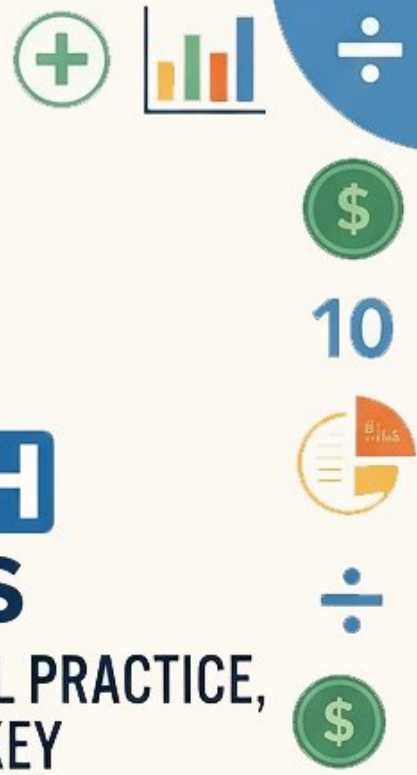
GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY



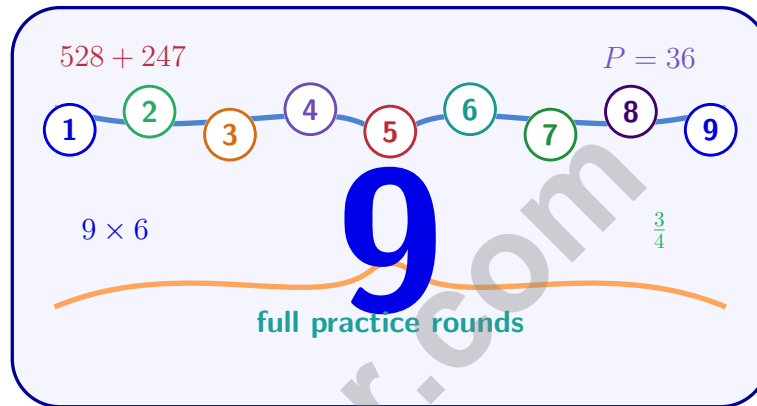
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FOR THE COMPREHENSIVE ASSESSMENT PROGRAM



9 Ohio OST Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Ohio, Start Your Nine-Round Math Mission

A brave Grade 3 journey from first try to confident finish

This book gives you nine chances to practice like a thoughtful Ohio OST test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Ohio has river towns, lake shores, space history, farm counties, and careful classroom routines, where careful steps matter. Strong math follows that same idea: model what the question asks, choose a useful tool, show the work, and reason before moving on.

Your Ohio Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear Ohio review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In Ohio, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with OST support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A Ohio standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.

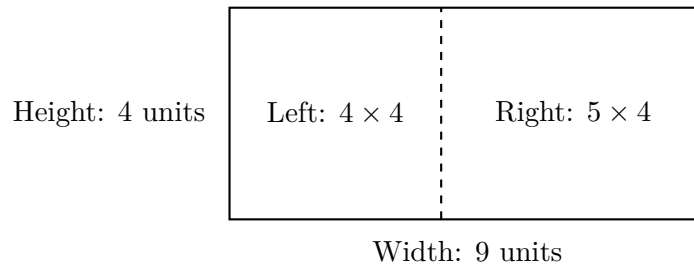


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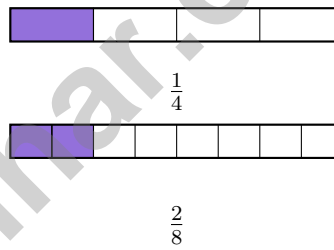
1) This rectangle is split by a vertical line:



Which is the correct distributive property equation?

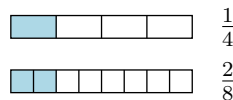
- A. $4 \times (4 + 5) = (4 \times 4) + (4 \times 5) = 16 + 20 = 36$
 B. $9 + 4 = 13$
 C. $(4 \times 4) + (5 \times 4) = 16 + 20 = 36$
 D. $(4 + 5) \times 4 = 36$

2) Which fraction is equivalent to $\frac{2}{8}$?



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

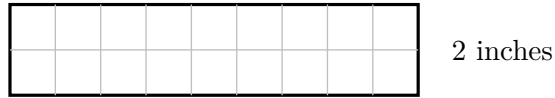
3) Look at the fraction bars. Which bars show equivalent fractions?



- A. Yes, they are equivalent
 B. No, they are not equivalent
 C. The bars cannot be compared
 D. They show a ratio, not a fraction



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4) 9 inches

Count the unit squares in the grid. What is the area?

- A. 11 sq in C. 18 sq in
 B. 20 sq in D. 36 sq in

5) A garden is 9 meters long and 3 meters wide. Show how you would count all the unit squares. Write a number sentence (like $3 + 3 + 3 + \dots$).

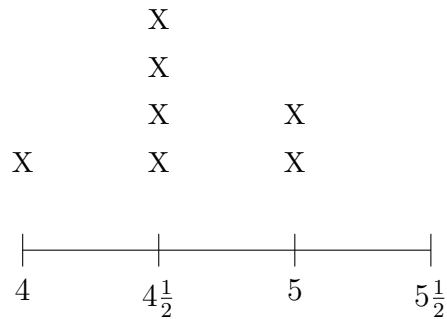


6) Which whole number equals $\frac{8}{4}$?

- A. 2 C. 1
 B. 4 D. 8



7) Mia recorded the weights of apples in ounces. The line plot shows: $4, 4\frac{1}{2}, 5, 5\frac{1}{2}$.



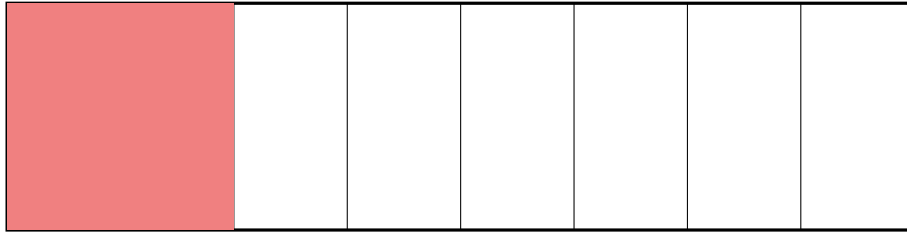
Which weight has the least X's?

- A. 4 ounces C. 5 ounces
 B. $4\frac{1}{2}$ ounces D. $5\frac{1}{2}$ ounces
- 8) A bar graph shows hours practiced. Piano: 6 units (scale: 2 hours per unit). Guitar: 4 units (scale: 2 hours per unit). How many more hours was piano practiced?
- A. 2 C. 8
 B. 4 D. 12
- 9) What is $367 + ? = 650$? Find the missing addend.
- A. 283 C. 293
 B. 273 D. 382
- 10) Lily has $\frac{3}{8}$ of a chocolate bar. Noah has $\frac{3}{4}$ of the same size chocolate bar. Who has more?
- A. Lily ($8 > 4$) C. They have the same amount
 B. Noah ($3/4$ is larger) D. Cannot tell without the bar's size



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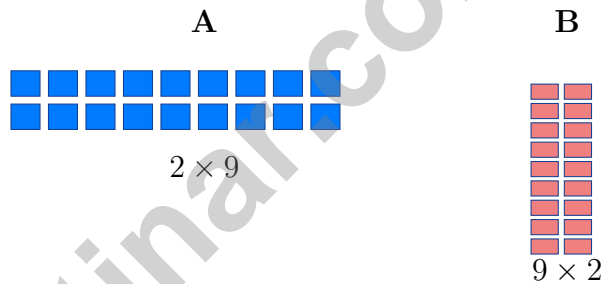
1) A rectangle is divided into 8 equal parts. Two parts are shaded.



If each shaded part is a unit fraction, what is the total shaded fraction?

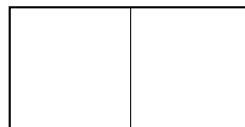
- A. $\frac{2}{8}$
 C. $\frac{2}{1}$
 B. $\frac{1}{3}$
 D. $\frac{1}{8}$

2) Which statement about these two arrays shows the commutative property?



- A. The arrays show the same property as $9 - 2$.
 C. Array B has more squares.
 B. $2 + 9 = 11$ and $9 + 2 = 11$
 D. $2 \times 9 = 9 \times 2$

3) A rectangle is divided into equal parts. The fraction of one part is $\frac{1}{2}$. How many equal parts is the rectangle divided into?



- A. 1 part
 C. 3 parts
 B. 2 parts
 D. 4 parts



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4) A store has 456 pencils. It sells 132 pencils. How many pencils are left?

A. 314

C. 334

B. 424

D. 324

5) A composite figure is divided by dashed lines into two rectangles. If one has area 16 sq units and the other has area 12 sq units, what is the total area?

A. 4 sq units

C. 192 sq units

B. 28 sq units

D. 32 sq units

6) Which is closer to 1: $\frac{1}{3}$ or $\frac{1}{2}$?

7) Which repeated addition equals $9 + 9 + 9 + 9$?

A. $3 \times 9 = 27$

C. $5 \times 9 = 45$

B. $9 \times 9 = 81$

D. $4 \times 9 = 36$

8) Which fact family includes the division $56 \div 8 = 7$?

A. $6 \times 8 = 48$, $48 \div 6 = 8$, $48 \div 8 = 6$

C. $8 \times 8 = 64$, $64 \div 8 = 8$

B. $7 \times 7 = 49$, $49 \div 7 = 7$

D. $7 \times 8 = 56$, $56 \div 7 = 8$, $56 \div 8 = 7$

9) A rectangular bookmark has length 9 cm and width 2 cm. Find the area of the bookmark.



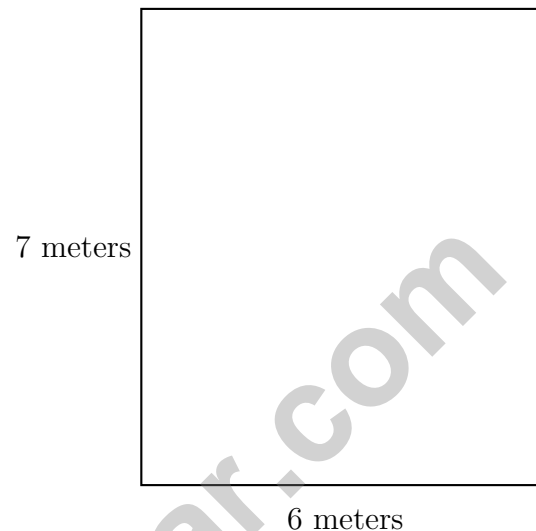
1) Sam pours juice equally into 5 glasses. He uses 2000 mL total. About how many milliliters are in each glass?

A. 200 mL

B. 400 mL

C. 600 mL

D. 1000 mL



2)

A rectangular wall is 6 meters wide and 7 meters tall. What is the area?

A. 26 sq m

B. 42 sq m

C. 13 sq m

D. 84 sq m

3) Which fraction is equivalent to $\frac{1}{2}$?

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

B. $\frac{2}{4}$

C. $\frac{2}{3}$

D. $\frac{1}{3}$



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4) Round 662 to the nearest 10.

A. 660

C. 665

B. 662

D. 670

5) Which comparison is true?

A. $\frac{3}{2} > \frac{3}{3}$

C. $\frac{3}{2} = \frac{3}{3}$

B. $\frac{3}{2} < \frac{3}{3}$

D. $\frac{3}{3} > \frac{3}{2}$

6) On a number line from 0 to 2 divided into fourths, how many fourths are there in total?

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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.7c)** Height is 4, widths are 4 and 5, totaling 9. Distributive property: $4 \times (4+5) = 4 \times 9 = 36$.
- 2) **Choice A is correct.** **(3.NF.3)** $\frac{2}{8}$ and $\frac{1}{4}$ both equal one-quarter of a whole.
- 3) **Choice A is correct.** **(3.NF.3b)** Both bars show the same shaded length. $\frac{1}{4} = \frac{2}{8}$ because $\frac{1 \times 2}{4 \times 2} = \frac{2}{8}$.
- 4) **Choice C is correct.** **(3.MD.7)** The grid has 9 columns and 2 rows. Area = $9 \times 2 = 18$ square inches. You can also add: $9 + 9 = 18$ (two rows of nine).
- 5) **The correct answer is 27 sq m.** **(3.MD.6)** Accept any counting strategy (row-add or column-add). Students should show repeated addition or skip-counting.
- 6) **Choice A is correct.** **(3.NF.3c)** $\frac{8}{4}$ means 8 fourths. 4 fourths make 1 whole, so 8 fourths make 2 wholes.
- 7) **Choice D is correct.** **(3.MD.4)** At $5\frac{1}{2}$, there are zero X's. All other values have at least one X.
- 8) **Choice B is correct.** **(3.MD.3)** Piano: $6 \times 2 = 12$. Guitar: $4 \times 2 = 8$. More: $12 - 8 = 4$.
- 9) **Choice A is correct.** **(3.NBT.2)** Subtract to find the missing addend: $650 - 367 = 283$. Check: $367 + 283 = 650$.
- 10) **Choice B is correct.** **(3.NF.3d)** Same numerator (3), different denominators, same chocolate bar: fourths are larger pieces than eighths. So $\frac{3}{4}$ is more than $\frac{3}{8}$. Noah has more because he has 3 larger pieces.
- 11) **Choice B is correct.** **(3.NF.2a)** The second tick is two of the three equal parts, which is $\frac{2}{3}$.
- 12) **Choice D is correct.** **(3.OA.1)** The array shows 3 rows with 4 squares in each row. This equals $4 + 4 + 4 = 12$ or $3 \times 4 = 12$.
- 13) **Choice D is correct.** **(3.OA.6)** In a fact family, $45 \div 5 = 9$ and $45 \div 9 = 5$. Division reverses multiplication.
- 14) **Choices B and C are correct.** **(3.NBT.1)** Numbers from 75 to 84 round to 80 when rounded to the nearest 10. Choice A (74) has ones digit $4 < 5$, so it rounds to 70. Choice B (76) has ones digit $6 \geq 5$, so it rounds to 80. Choice C (84) has ones digit $4 < 5$, so it rounds to 80. Choice D (85) has ones digit $5 \geq 5$, so it rounds to 90. Choice E (91) has ones digit $1 < 5$, so it rounds to 90.
- 15) **Choice C is correct.** **(3.NF.2)** $\frac{1}{3}$ and $\frac{2}{6}$ mark the same point on the number line from 0 to 1. They represent the same fraction.
- 16) **Choice A is correct.** **(3.OA.2)** Dividing equally among groups means the total is shared into equal parts. Use division.
- 17) **Choice C is correct.** **(3.MD.5)** If area = length times width, then $20 = 5 \times w$. So $w = 4$ feet. Working backward from area is harder but uses the same idea.
- 18) **Choice B is correct.** **(3.MD.1a)** The interval from 5 : 10 to 5 : 40 is 30 minutes. The middle of 30 minutes is 15 minutes. So 5 : 10 + 15 = 5 : 25 PM.
- 19) **Choice D is correct.** **(3.OA.9)** From 5 to 10 is +5; from 10 to 15 is +5; and so on. This pattern is the same as multiplying 5 by 1, 2, 3, 4, 5, 6 (the multiplication table for 5).
- 20) **Choice B is correct.** **(3.MD.2)** Read the marking on the measuring cup: 200 mL.
- 21) **Choice A is correct.** **(3.NF.2b)** At 2.5 on fourths: $\frac{10}{4}$. At 3.5 on fourths: $\frac{14}{4}$.
- 22) **Choice A is correct.** **(3.MD.7d)** When breaking a composite shape into rectangles, add their areas because the rectangles do not overlap.
- 23) **The correct answer is 60.** **(3.NBT.3)** 6 boxes of 10 crayons = $6 \times 10 = 60$ crayons.
- 24) **Choice C is correct.** **(3.MD.5a)** The rectangle is 2 units wide and 5 units tall: $2 \times 5 = 10$ unit squares.
- 25) **Choice D is correct.** **(3.OA.4)** The total number of stickers is unknown. Since the stickers are shared equally among 3 friends and each friend gets 6, the equation is $\square \div 3 = 6$.
- 26) **Choice C is correct.** **(3.G.2)** Two shaded parts out of four equal parts is $\frac{2}{4}$, which equals $\frac{1}{2}$.
- 27) **Choice D is correct.** **(3.OA.8)** Multiply shelves by books per shelf: $8 \times 7 = 56$ books. Add new books: $56 + 6 = 62$ books total.
- 28) **The correct answer is 80 square feet.** **(3.MD.7b)** Area = length \times width, so $10 \times 8 = 80$ square feet.
- 29) **Choice D is correct.** **(3.OA.7)** $54 \div 6 = 9$ because $9 \times 6 = 54$.
- 30) **Choice A is correct.** **(3.NF.1)** The rectangle has 4 equal parts, and 1 is shaded, so the fraction is $\frac{1}{4}$ (one-fourth).



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Author's Note

From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 9 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Friend

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