

5

Ohio

OST

GRADE 3

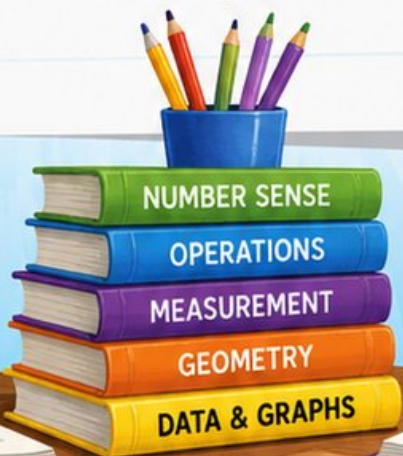
MATH

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 Ohio OST 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 Ohio OST. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Ohio has lake shores, river towns, city routes, and crossroads that make smart checking useful. 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 Ohio 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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& answers

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1) A number line from 0 to 1 is divided into 5 equal parts. What is the length of each part?

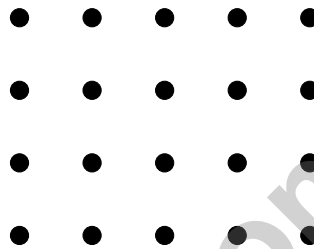
A. $\frac{1}{5}$

B. $\frac{5}{5}$

C. $\frac{5}{1}$

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

2) Look at the array diagram below showing groups of dots. Which division equation matches?



5 columns and 4 rows = 20 dots

A. $20 \div 5 = 4$

B. $20 \div 4 = 4$

C. $20 \div 5 = 5$

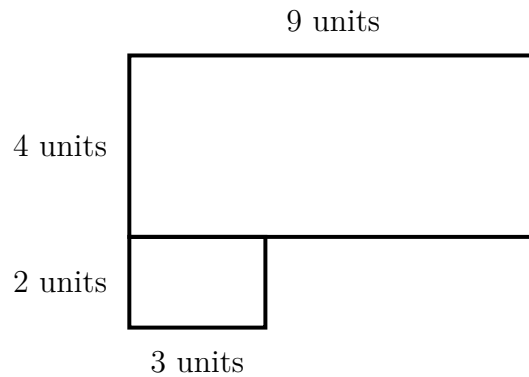
D. $20 - 5 = 15$

3) A rectangle has length 4 and width 2. How many sides does it have?



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- 4) Eli has an L-shaped rug. The longer side is 9 units by 4 units. The shorter side is 3 units by 2 units. What is the total area of the rug?



- A. 36 sq units C. 42 sq units
 B. 6 sq units D. 216 sq units
- 5) Sam has $\frac{12}{4}$ yards of ribbon. How many whole yards does he have?
- A. 2 C. 4
 B. 3 D. 6
- 6) Look at this schedule table.

Event	Time
Math class starts	9 : 10 AM
Math class ends	10 : 03 AM
Lunch starts	12 : 00 PM

How long is math class?

- A. 50 minutes C. 55 minutes
 B. 53 minutes D. 1 hour



7) A rectangle is 8 units long and 12 units wide. If split into two rectangles with the same length of 8, and widths of 7 and 5, which is correct?

- A. $8 \times (7 + 5) = 8 \times 12 = 96$ square units
 B. $8 + 12 = 20$ units
 C. $7 + 5 = 13$ units
 D. $(8 \times 7) + (8 \times 5) = 56 + 40 = 96$ square units

8) Find $7 \times 9 + 5$.

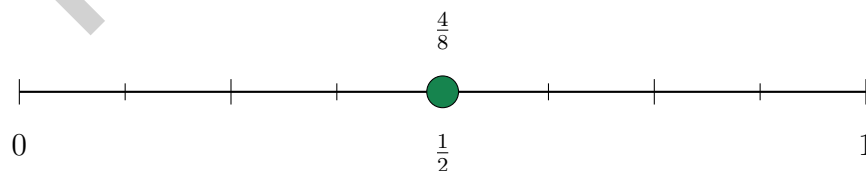
9) A rectangular rug has length 7 feet and width 6 feet. What is its area?

- A. 42 sq ft
 B. 26 sq ft
 C. 13 sq ft
 D. 49 sq ft

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

- A. 3
 B. 6
 C. 5
 D. 4

11) Look at the number line. Where does $\frac{4}{8}$ land?



- A. At $\frac{1}{4}$
 B. At $\frac{1}{2}$
 C. At $\frac{3}{4}$
 D. At $\frac{1}{8}$



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1) Counting unit fractions, what do $\frac{1}{4}$, $\frac{1}{4}$, and $\frac{1}{4}$ make together?

A. $\frac{1}{12}$

B. $\frac{3}{4}$

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

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

2) Ava ate $\frac{1}{2}$ of a pizza. Ben ate $\frac{4}{8}$ of a pizza. Did they eat the same amount?

 A. Yes, they ate the same amount B. No, Ava ate more C. No, Ben ate more D. Cannot be determined

3) A school buys 9 boxes of crayons. They use 4 boxes in art class. Each remaining box has 10 crayons. How many crayons are left unused?

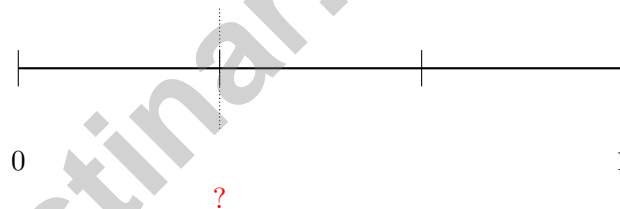
A. 40

B. 50

C. 60

D. 90

4) A number line from 0 to 1 is divided into 3 equal parts. Where is $\frac{1}{3}$ located?

 A. At the first tick B. At the second tick C. At zero D. At one

5) Which statement is true?

A. $\frac{14}{7} = 1$

B. $\frac{14}{7} = 2$

C. $\frac{14}{7} = 7$

D. $\frac{14}{7} = 14$

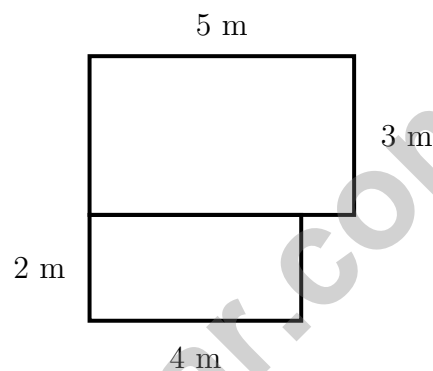


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6) Eli is filling a rectangular mat with colored unit square patches. The mat measures 11 units by 3 units. How many patches will he need?

- A. 14 patches C. 33 patches
 B. 27 patches D. 44 patches

7) An L-shaped garden is divided into two rectangles. The top rectangle has length 5 m and width 3 m. The bottom rectangle has length 4 m and width 2 m. What is the total area of the garden?



- A. 14 sq m C. 38 sq m
 B. 23 sq m D. 120 sq m



Parallel

8)

The shape shows two sides that are parallel. If this is a rectangle, which other pair of sides is also parallel?

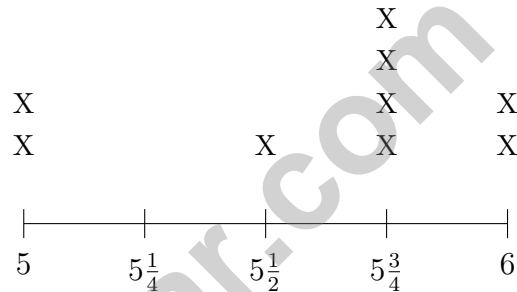
- A. The left and right sides C. Only one pair in a rectangle
 B. The diagonal sides D. No other sides are parallel



- 1) A rectangle is divided into equal parts. If $\frac{4}{4}$ is the whole rectangle, which fraction shows half of the rectangle?



- A. $\frac{1}{4}$
 C. $\frac{3}{4}$
 B. $\frac{2}{4}$
 D. $\frac{4}{4}$
- 2) A line plot shows book lengths in inches with quarters: $5, 5\frac{1}{4}, 5\frac{1}{2}, 5\frac{3}{4}, 6$.



What is the least common book length?

- A. 5 inches
 C. $5\frac{3}{4}$ inches
 B. $5\frac{1}{2}$ inches
 D. 6 inches
- 3) What is $500 - 243$?

- A. 257
 C. 357
 B. 267
 D. 347



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& answers

4) Ben's blanket is a square with sides of 7 meters. What is the area of the blanket?

A. 14 sq m

C. 42 sq m

B. 28 sq m

D. 49 sq m

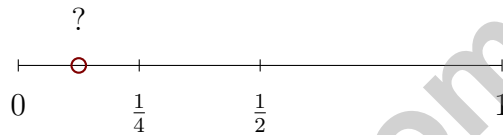
5) Sam earned 36 points in 6 games. If he earned the same number of points in each game, how many points did he earn per game?

A. 5 points

C. 7 points

B. 8 points

D. 6 points



6)

The red dot is between 0 and $\frac{1}{4}$. What fraction could it be?

A. $\frac{1}{8}$

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

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

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

7) A cup holds 200 mL. About how many cups would fill a 1000 mL pitcher? ESTIMATE.



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.NF.A.2a)** When the interval from 0 to 1 is split into 5 equal parts, each part has length $\frac{1}{5}$.
- 2) **Choice A is correct.** **(3.OA.B.6)** The array has 5 columns and 20 dots total, so $20 \div 5 = 4$ dots in each column.
- 3) **The correct answer is 4 sides.** **(3.G.A.1)** A rectangle is a quadrilateral, so it has 4 sides.
- 4) **Choice C is correct.** **(3.MD.C.7d)** Longer: $9 \times 4 = 36$ sq units. Shorter: $3 \times 2 = 6$ sq units. Total: $36 + 6 = 42$ sq units.
- 5) **Choice B is correct.** **(3.NF.A.3c)** $\frac{12}{4}$ means 12 fourths. 4 fourths = 1 whole, so $12 \div 4 = 3$ wholes.
- 6) **Choice B is correct.** **(3.MD.A.1)** From 9 : 10 to 10 : 10 is 1 hour (60 minutes). From 10 : 03 to 10 : 10 is 7 minutes. So $60 - 7 = 53$ minutes.
- 7) **Choice A is correct.** **(3.MD.C.7c)** The distributive property is shown as $8 \times (7 + 5) = (8 \times 7) + (8 \times 5) = 56 + 40 = 96$.
- 8) **The correct answer is 68.** **(3.OA.D.8)** $7 \times 9 = 63$, and $63 + 5 = 68$.
- 9) **Choice A is correct.** **(3.MD.C.7)** Area = $7 \times 6 = 42$ square feet.
- 10) **Choice D is correct.** **(3.OA.A.2)** $24 \div 6 = 4$. Divide the total marbles by the number of piles.
- 11) **Choice B is correct.** **(3.NF.A.3)** $\frac{4}{8}$ and $\frac{1}{2}$ mark the same point on the line.
- 12) **Choice D is correct.** **(3.NF.A.3a)** $\frac{1}{4} = \frac{2}{8}$. Both sections cover one-quarter of their gardens.
- 13) **Choices A and C are correct.** **(3.OA.A.3)** Choices A and C involve finding a total from equal groups. B, D, and E involve subtraction or addition of separate quantities.
- 14) **Choice C is correct.** **(3.MD.C.7b)** Area = length \times width = $4 \times 6 = 24$ square inches.
- 15) **The correct answer is $\frac{1}{6}$.** **(3.NF.A.1)** One of 6 equal parts is $\frac{1}{6}$.
- 16) **Choice B is correct.** **(3.NBT.A.3)** The pattern shows: when you multiply any number by 10, you write the number and add a zero. So $8 \times 10 = 80$.
- 17) **Choice A is correct.** **(3.MD.C.5a)** Y is $2 \times 3 = 6$ unit squares. Z is $3 \times 2 = 6$ unit squares. Both have the same area of 6 square units.
- 18) **Choice B is correct.** **(3.MD.A.2)** Subtract: $280 - 250 = 30$ g.
- 19) **Choice D is correct.** **(3.OA.A.1)** The rectangle has 3 columns and 2 rows of equal parts. So $3 \times 2 = 6$ parts in total.
- 20) **Choice C is correct.** **(3.NF.A.3b)** Circle 1 shows $\frac{1}{2}$ (half shaded) and Circle 3 shows $\frac{2}{4}$ (half shaded). These are equivalent because $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$.
- 21) **Choice D is correct.** **(3.OA.C.7)** $6 \times 7 = (6 \times 10) - (6 \times 3) = 60 - 18 = 42$. Breaking the fact into known facts is a good mental-math strategy.
- 22) **Choice C is correct.** **(3.MD.C.5b)** $10 \times 4 = 40$ unit square tiles are needed.
- 23) **Choice A is correct.** **(3.OA.D.9)** Each product is 4 times a whole number. Since 4 is even, every multiple of 4 is even. This is true for all even numbers: even \times (any number) = even.
- 24) **Choice A is correct.** **(3.OA.A.4)** If $72 \div 8 = 9$, then 8×9 must equal 72.
- 25) **Choice A is correct.** **(3.OA.B.5)** Both arrays show 10 total squares. Array A is 2×5 and Array B is 5×2 , showing the commutative property.
- 26) **Choice B is correct.** **(3.NF.A.2)** The right end is at all 2 parts, so the fraction is $\frac{2}{2}$, which equals 1.
- 27) **Choice C is correct.** **(3.MD.C.5)** Area is the space inside (square units). Perimeter is the distance around the edge (linear units). They measure different attributes.
- 28) **Choice B is correct.** **(3.MD.B.4)** The mode is 25 inches with 5 X's, which is more than any other measurement.
- 29) **Choice C is correct.** **(3.MD.B.3)** Multiply: $4 \times 5 = 20$ pencils.
- 30) **Choice A is correct.** **(3.NF.A.3d)** Same numerator (5): sixths are bigger pieces than eighths. So $\frac{5}{6} > \frac{5}{8}$. Ben ran farther.



From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 5 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

Build Skills. Boost Confidence.

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Answer Keys & Explanations

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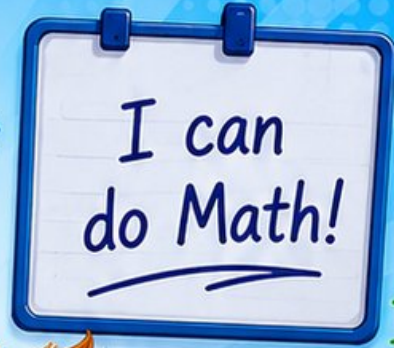
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- ✓ Perimeter, Area & Volume
- ✓ Time & Money
- ✓ Data & Graphs
- ✓ Word Problems
- ✓ And More!



Visit testinar.com/math3 for more Grade 3 math resources and practice materials!



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

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

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



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Classroom Learning



Homework Support



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