

5

Maine

Through Year Assessment

GRADE 3

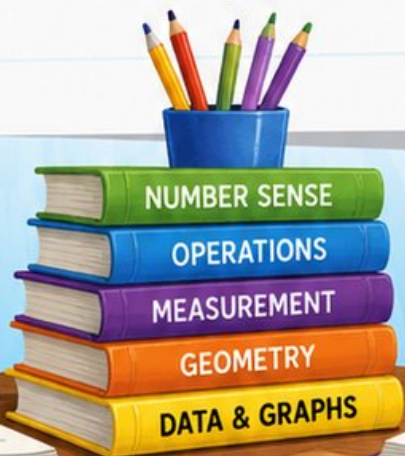
MATH

PRACTICE TESTS

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

$$\begin{array}{r} 125 \\ + 37 \\ \hline \end{array}$$

$24 \div 3 = 8$



5 FULL-LENGTH PRACTICE TESTS



STANDARDS-ALIGNED PRACTICE



DETAILED ANSWER KEYS



CLEAR EXPLANATIONS TO HELP YOU SUCCEED

5 Maine Through Year Assessment 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 Maine Through Year Assessment. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Maine has rocky coasts, forest trails, lighthouse views, and quiet coves that reward patient attention. 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 Maine 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) A rectangular garden has length 8 feet and width 3 feet. What is its area in square feet?

A. 24 sq ft

B. 16 sq ft

C. 11 sq ft

D. 32 sq ft

2) A garden is 7 feet long and 5 feet wide. What is its area?

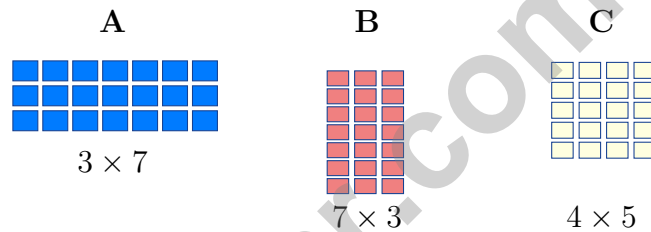
A. 12 sq ft

B. 35 sq ft

C. 24 sq ft

D. 70 sq ft

3) Which pair of arrays both show the same product?



A. Arrays A and B

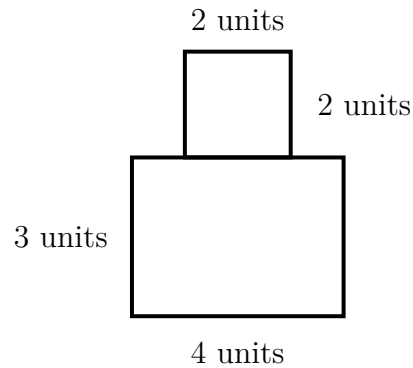
B. Arrays A and C

C. Arrays B and C

D. All three arrays



4) A composite figure shows:



What is the total area?

- A. 12 sq units C. 16 sq units
 B. 4 sq units D. 18 sq units
- 5) A picture graph shows colored beads. Red: 5 symbols (scale: 4). Blue: 6 symbols (scale: 4). Green: 4 symbols (scale: 4). What is the total number of beads?
- A. 15 C. 60
 B. 48 D. 64
- 6) Noah has 16 pencils. He puts them into 4 boxes equally. Which division equation shows this?
- A. $4 \times 4 = 16$ C. $16 - 4 = 12$
 B. $16 + 4 = 20$ D. $16 \div 4 = 4$

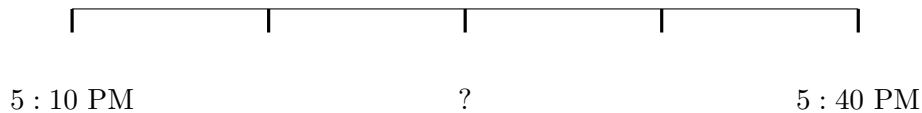


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7) Sam divides a number line from 0 to 1 into 4 equal parts. How many parts are between 0 and the second tick mark?

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

8) A number line shows times. What is the time at the middle mark?



- A. 5 : 20 PM C. 5 : 30 PM
 B. 5 : 25 PM D. 5 : 35 PM

9) Maria measured the widths of five leaves and got these results: 2 inches, $2\frac{1}{4}$ inches, $2\frac{1}{4}$ inches, $2\frac{1}{2}$ inches, and 2 inches. On a line plot with a scale of 2, $2\frac{1}{4}$, $2\frac{1}{2}$, $2\frac{3}{4}$, 3 inches, how many X's would you place above the $2\frac{1}{4}$ inch mark?

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10) Which statement is true about a unit square measured in centimeters?

- A. It has side length 2 cm and area 4 square cm C. It has side length 1 cm and area 2 square cm
 B. It has side length 1 cm and area 1 square cm D. It has side length 5 cm and area 5 square cm



1) A bottle holds 2000 milliliters of juice. A glass holds about 250 milliliters. Which is the BEST estimate of how many glasses can be filled from the bottle?

A. 2

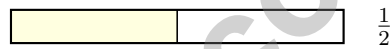
C. 8

B. 4

D. 12

2) Find $9 \times (2 + 6)$.

3) Look at the bars. Are $\frac{1}{2}$ and $\frac{2}{4}$ equivalent?



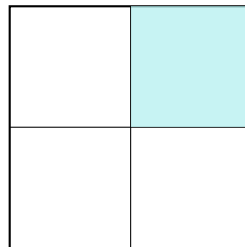
A. Yes, they are equivalent

C. The first is larger

B. No, they are not equivalent

D. The second is larger

4) A rectangle is divided with 1 horizontal and 1 vertical line making 4 equal parts.



One part is shaded. What fraction is shaded?

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

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

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

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



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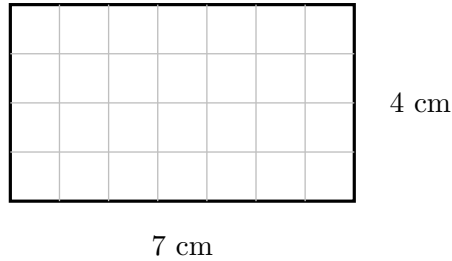
5) Complete: $\square \div 5 = 8$

A. 35

C. 45

B. 40

D. 13



6)

Count the grid squares to find the area.

A. 11 sq cm

C. 28 sq cm

B. 22 sq cm

D. 35 sq cm

7) Look at the fact family for 3, 6, and 18. Which shows TWO correct related facts?

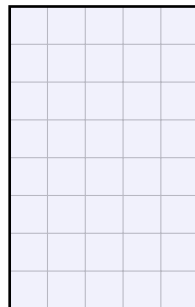
A. $3 \times 6 = 18$ and $6 \times 3 = 18$

C. $3 \times 6 = 19$ and $19 \div 6 = 3$

B. $3 \times 6 = 18$ and $18 \div 3 = 6$

D. $3 \times 6 = 20$ and $20 \div 3 = 6$

8) On a grid, a rectangle covers 8 rows and 5 columns of unit squares.



What is the area?

A. 13 sq units

C. 35 sq units

B. 26 sq units

D. 40 sq units



1) Eli has 3 boxes with 7 pencils in each box. How many pencils does Eli have?

- A. 10 pencils (adds 3 + 7)
- B. 11 pencils (miscounting: forgets one group)
- C. 14 pencils (multiplies first number by itself and second: 3 + 3 + 3 + 7)
- D. 21 pencils

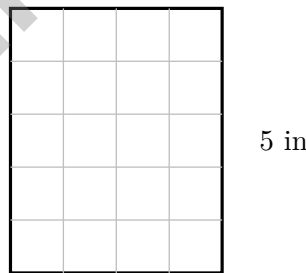
2) A rectangular piece of fabric is 10 feet long and 2 feet wide. What is the total area of the fabric?

- A. 12 sq ft
- B. 20 sq ft
- C. 24 sq ft
- D. 5 sq ft

3) Which rectangle shows $\frac{2}{4}$ and $\frac{4}{8}$ as equivalent?



- A. Both rectangles
- B. Rectangle A only
- C. Rectangle B only
- D. Neither rectangle



4)

4 in

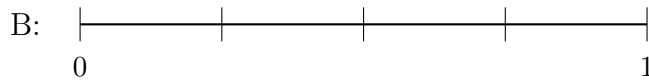
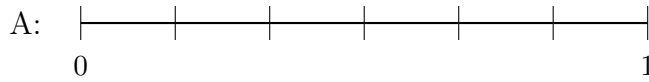
Count the unit squares. What is the area of the rectangle?

- A. 9 sq in
- B. 20 sq in
- C. 25 sq in
- D. 16 sq in



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5) Which number line correctly shows an interval from 0 to 1 divided into 6 equal parts?



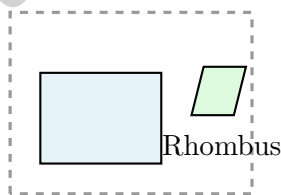
- A. Option A
- B. Option B
- C. Neither is correct
- D. Both are correct

6) All multiples of 5 end in 0 or 5. Look at: 5, 10, 15, 20, 25, 30. Which number is NOT a multiple of 5?

- A. 35
- B. 55
- C. 50
- D. 42

7) Let t represent the number of items left. A store has 5 boxes with 6 items in each. They sell 12 items. What is t ?

- A. 18
- B. 24
- C. 30
- D. 42



Rectangle

8)

Two shapes are shown. Which property do they share?

- A. Both have right angles
- B. Both have 4 sides
- C. Both have equal sides
- D. Both are squares

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.MD.C.7)** Area = $8 \times 3 = 24$ square feet.
- Choice B is correct.** **(3.MD.C.7b)** Area = length \times width = $7 \times 5 = 35$ square feet. Choice A (12) is the sum $7 + 5$; Choice C (24) is common product error; Choice D (70) is double the area.
- Choice A is correct.** **(3.OA.B.5)** Arrays A (3×7) and B (7×3) both have 21 squares, showing the commutative property. Array C has $4 \times 5 = 20$ squares.
- Choice C is correct.** **(3.MD.C.7d)** Bottom rectangle: $4 \times 3 = 12$ sq units. Top rectangle: $2 \times 2 = 4$ sq units. Total: $12 + 4 = 16$ sq units.
- Choice C is correct.** **(3.MD.B.3)** Red: $5 \times 4 = 20$. Blue: $6 \times 4 = 24$. Green: $4 \times 4 = 16$. Total: $20 + 24 + 16 = 60$.
- Choice D is correct.** **(3.OA.B.6)** 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.NF.A.2a)** The second tick is two of the four equal parts from 0.
- Choice B is correct.** **(3.MD.A.1)** 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.
- The correct answer is 2 X's.** **(3.MD.B.4)** Two leaves measured exactly $2\frac{1}{4}$ inches, so there would be 2 X's above the $2\frac{1}{4}$ mark.
- Choice B is correct.** **(3.MD.C.5a)** A unit square by definition has side length 1 unit. In centimeters, that is 1 cm by 1 cm, giving area $1 \text{ cm} \times 1 \text{ cm} = 1$ square cm.
- Choice A is correct.** **(3.OA.A.4)** If $72 \div 8 = 9$, then 8×9 must equal 72.
- The correct answer is 3.** **(3.NF.A.3c)** $\frac{9}{3} = 3$.
- Choices A and C are correct.** **(3.G.A.1)** Both squares and rectangles are defined by having exactly 4 right angles. Rhombuses do not require right angles (only equal sides). Trapezoids and general parallelograms do not need right angles.
- Choice D is correct.** **(3.OA.A.3)** Multiply: 4 boxes \times 8 pens per box = 32 pens.
- Choice A is correct.** **(3.MD.C.5)** $8 \times 3 = 24$ square units, same as Rectangle A.
- Choice C is correct.** **(3.OA.C.7)** Looking at the row for 6, the pattern continues: $6 \times 9 = 54$.
- Choice C is correct.** **(3.NF.A.1)** The rectangle is divided into 2 equal parts with 1 shaded. The fraction is $\frac{1}{2}$ (one-half).
- Choice B is correct.** **(3.MD.C.5b)** Count the rows: 9 rows. Count across: 6 unit squares per row. Total: $6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 = 54$ unit squares cover the playground.
- Choice A is correct.** **(3.MD.C.7c)** Split 12 into 7 + 5. Multiply 8 by each part, then add: $56 + 40 = 96$.
- Choice D is correct.** **(3.NBT.A.1)** The tens digit is 8. Since $8 \geq 5$, round up: 589 rounds to 600.
- The correct answer is about 5 cups.** **(3.MD.A.2)** Divide: $1000 \div 200 = 5$ cups. Estimation practice aligned to 3.MD.A.2.
- Choice B is correct.** **(3.NF.A.2)** $\frac{2}{4} = \frac{1}{2}$, so $\frac{2}{4}$ and $\frac{1}{2}$ are the same point on the number line.
- Choice D is correct.** **(3.NF.A.2b)** Each whole number spans 3 ticks. From 0, the tick at position $1\frac{1}{3}$ is the 4th tick, which is $\frac{4}{3}$.
- Choice C is correct.** **(3.MD.C.7a)** Square: $6 \times 6 = 36$ tiles. D is concatenation error.
- Choice C is correct.** **(3.NF.A.3d)** Strategy: same numerator (2), so compare denominators. Thirds are bigger pieces than fourths (a whole divided by 3 gives bigger parts than divided by 4). Visual check: the blue bar ($\frac{2}{3}$) covers more area than the bar would if it were $\frac{2}{4}$. Rule: when numerators match, smaller denominator wins.
- Choice D is correct.** **(3.OA.A.2)** $10 \div 5 = 2$. The picture shows 5 equal groups, each with 2 items.
- Choice D is correct.** **(3.OA.D.9)** Even numbers increase by 2: 2, 4, 6, 8, etc.
- Choice C is correct.** **(3.NBT.A.3)** Multiply $6 \times 5 = 30$, then add one zero: $6 \times 50 = 300$.
- Choice D is correct.** **(3.OA.A.1)** $3 \times 6 = 18$ (three groups of six). James added $3 + 6 = 9$ instead of multiplying.



Hi, Math Athlete!

◇ 5 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.

Jay Daie

Your Math Trainer

Build Skills. Boost Confidence.

Excel in Grade 3 Math!

This book provides 5 full-length Grade 3 math practice tests that follow standards and help students achieve real results.



5 Full-Length Practice Tests

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- ✓ And More!



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



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

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

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



Everything Your Child Needs to Succeed in Grade 3 Math!



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Homework Support



Test Preparation



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