

5

Massachusetts

MCAS

GRADE 3

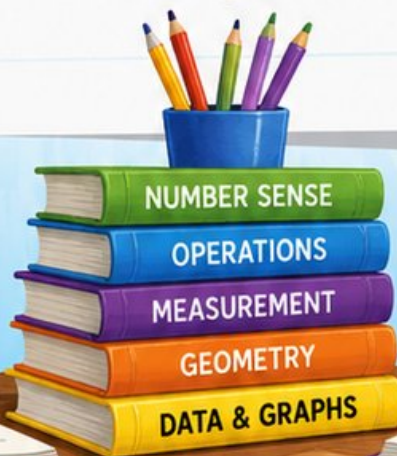
MATH

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 Massachusetts MCAS 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



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

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

Massachusetts has historic roads, harbor views, college towns, and classrooms where clear reasoning matters. 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 Massachusetts 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.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	40
★ Practice Test 4	_____	52
★ Practice Test 5	_____	65
Practice Test Answer Keys	_____	77
Practice Test Answers and Explanations	_____	81

1) Which equation is in the same fact family as $6 \times 7 = 42$?

A. $42 \div 6 = 7$

C. $7 \times 6 = 41$

B. $42 \div 5 = 8$

D. $42 \div 7 = 7$

2) Round 734 to the nearest 10.

A. 730

C. 740

B. 734

D. 800

3) Ava buys three bags of flour: one weighs 2 kg, another weighs 500 g, and the last weighs 300 g. What is the total mass in grams?

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) Which two fractions both equal the whole number 2?

A. $\frac{2}{1}$ and $\frac{4}{2}$

C. $\frac{4}{4}$ and $\frac{6}{3}$

B. $\frac{2}{1}$ and $\frac{3}{3}$

D. $\frac{3}{1}$ and $\frac{6}{2}$

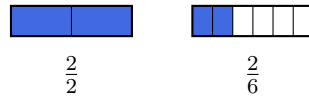


Scan me!
For more practice
& answers

6) Ava has 20 beads. She wants to make 5 equal bracelets. How many beads are on each bracelet?

- A. 3
 B. 25

- C. 15
 D. 4



7)

Compare $\frac{2}{2}$ and $\frac{2}{6}$. Which is true?

- A. $\frac{2}{2} < \frac{2}{6}$
 B. $\frac{2}{2} > \frac{2}{6}$

- C. $\frac{2}{2} = \frac{2}{6}$
 D. $\frac{2}{6} > \frac{2}{2}$

8) A unit square in meters has area 1 square meter. What is the side length?

- A. 2 meters
 B. 1 meter

- C. 0.5 meters
 D. 4 meters

9) A bar graph shows toy cars. The scale shows 10 cars per unit. Eli's bar is 2 units tall. How many cars does Eli have?

- A. 12
 B. 20

- C. 30
 D. 40

10) Add $375 + 248$ using the standard algorithm (aligning by place value).



11) Maya has 100 beads. She uses 25 beads to make a necklace. She divides the rest equally into 5 bracelets. How many beads are in each bracelet?

A. 15

C. 25

B. 20

D. 75

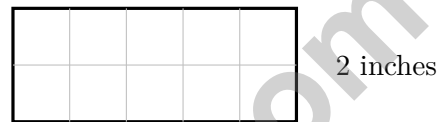
12) A garden is arranged in an array with 7 rows and 3 plants in each row. How many plants are in the garden?

A. 21

C. 10

B. 19

D. 24



13) How many unit squares fit in this rectangle?

A. 7 units

C. 15 units

B. 9 units

D. 10 units

14) A tiled rectangle has two parts: $10 \times 3 = 30$ and $10 \times 7 = 70$. Which expanded distributive equation is correct?

A. $10 \times (3 + 7) = 10 + 10 = 20$

C. $10 \times 3 + 7 = 37$

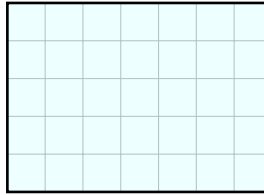
B. $(10 \times 3) + (10 \times 7) = 30 + 70 = 100$

D. $3 + 7 = 10$



Scan me!
For more practice
& answers

1) This grid shows a rectangle.



What is the area in square units?

- A. 25 sq units C. 35 sq units
 B. 30 sq units D. 40 sq units

2) Which is greater: $\frac{2}{3}$ or $\frac{2}{6}$?

3) Ava multiplies 6 by 1. What property of multiplication is this?

- A. Commutative property C. Distributive property
 B. Associative property D. Identity property

4) Each box holds 6 pencils. One box has 6 pencils. Two boxes have 12 pencils. Three boxes have 18 pencils.

How many pencils are in 5 boxes?

- A. 24 C. 36
 B. 42 D. 30



Scan me!
For more practice
& answers

1) Kai has 20 toy cars. He puts 5 toy cars in each group. Which division shows the number of groups?

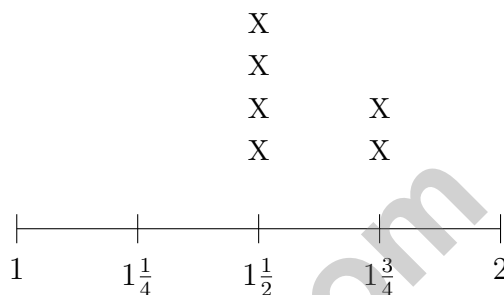
A. $20 \div 5 = 4$

C. $20 + 5 = 25$

B. $20 \div 4 = 4$

D. $20 - 5 = 15$

2) Mia's line plot shows snack weights in ounces: $1, 1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}, 2$.



What is the difference between the largest and smallest numbers of X's?

A. 1

C. 3

B. 2

D. 4

3) $\frac{2}{3} = \frac{?}{6}$. What is the missing numerator?

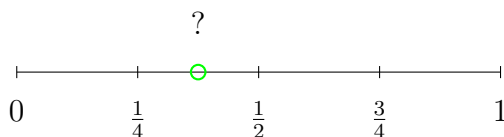
A. 3

C. 5

B. 4

D. 6

4)



The green dot is halfway between $\frac{1}{4}$ and $\frac{1}{2}$. Which is true?

A. The dot = $\frac{1}{4}$

C. $\frac{1}{4} < \text{the dot} < \frac{1}{2}$

B. The dot $> \frac{1}{2}$ and $< \frac{3}{4}$

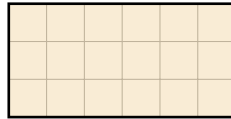
D. The dot = $\frac{1}{2}$



Scan me!
For more practice
& answers

5) How many odd numbers are in the pattern 4, 8, 12, 16, 20, 24, 28? Explain why.

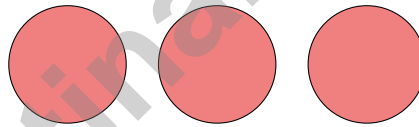
6) This grid shows a shape made of unit squares.



The area is how many square units?

- A. 18 sq units C. 9 sq units
 B. 15 sq units D. 20 sq units

7) The circles below are completely shaded. How many wholes do they show?



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

8) Which number rounds to 500 when rounded to the nearest 100?

- A. 449 C. 550
 B. 560 D. 460



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.

Testinar.com



Scan me!
For more practice
& answers

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(3.OA.A.4)** Both $6 \times 7 = 42$ and $42 \div 6 = 7$ are in the same fact family.
- 2) **Choice A is correct.** **(3.NBT.A.1)** The ones digit is 4. Since $4 < 5$, round down: 734 rounds to 730.
- 3) **The correct answer is 2800 g.** **(3.MD.A.2)** Convert: 2 kg = 2000 g. Add: $2000 + 500 + 300 = 2800$ g.
- 4) **Choice D is correct.** **(3.OA.D.9)** From 6 to 12 is +6; from 12 to 18 is +6. The constant difference is 6.
- 5) **Choice A is correct.** **(3.NF.A.3c)** $\frac{2}{1} = 2$ (two wholes) and $\frac{4}{2} = 2$ (four halves). Both equal 2.
- 6) **Choice D is correct.** **(3.OA.A.2)** $20 \div 5 = 4$. Divide the total beads by the number of bracelets.
- 7) **Choice B is correct.** **(3.NF.A.3d)** Two halves is one whole. Two sixths is less than one whole. So $\frac{2}{2} > \frac{2}{6}$.
- 8) **Choice B is correct.** **(3.MD.C.5a)** If area is 1 square meter and the shape is a unit square, the side length must be 1 meter.
- 9) **Choice B is correct.** **(3.MD.B.3)** $2 \times 10 = 20$ cars.
- 10) **The correct answer is 623.** **(3.NBT.A.2)** Ones: $5 + 8 = 13$ (write 3, carry 1). Tens: $7 + 4 + 1 = 12$ (write 2, carry 1). Hundreds: $3 + 2 + 1 = 6$. Final answer: 623.
- 11) **Choice A is correct.** **(3.OA.D.8)** Step 1: Subtract for necklace: $100 - 25 = 75$ beads. Step 2: Divide into bracelets: $75 \div 5 = 15$ beads per bracelet. (Choice D is step 1 only.)
- 12) **Choice A is correct.** **(3.OA.A.3)** Multiply: 7 rows \times 3 plants per row = 21 plants.
- 13) **Choice D is correct.** **(3.MD.C.7)** The grid shows 5 columns and 2 rows. Area = $5 \times 2 = 10$ square units. You can also count: $5 + 5 = 10$ (two rows of five).
- 14) **Choice B is correct.** **(3.MD.C.7c)** The expanded distributive equation adds the two smaller rectangle areas: $(10 \times 3) + (10 \times 7) = 30 + 70 = 100$.
- 15) **Choice B is correct.** **(3.MD.B.4)** Count the X's directly above the 4-inch mark. There are three X's stacked there.
- 16) **Choices A, B, C, and D are correct.** **(3.MD.C.6)** A: $3 \times 4 = 12$ unit squares. B: $6 \times 2 = 12$ unit squares. C: $2 \times 6 = 12$ unit squares. D: $4 \times 3 = 12$ unit squares. E: $5 \times 3 = 15$ unit squares. Items A, B, C, D all cover 12 square units.
- 17) **Choice B is correct.** **(3.NF.A.2)** The dot on Line A is at $\frac{1}{2}$. The dot on Line B is at $\frac{2}{4}$, which equals $\frac{1}{2}$. Both mark the same location.
- 18) **Choice D is correct.** **(3.OA.B.6)** The missing number is the product: $6 \times 7 = 42$. This fact family contains $6 \times 7 = 42$, $7 \times 6 = 42$, $42 \div 6 = 7$, and $42 \div 7 = 6$.
- 19) **Choice D is correct.** **(3.MD.C.7d)** Top: $4 \times 2 = 8$ sq m. Bottom left: $2 \times 3 = 6$ sq m. Bottom right: $2 \times 3 = 6$ sq m. Total: $8 + 6 + 6 = 20$ sq m.
- 20) **Choice D is correct.** **(3.MD.A.1)** The minute hand points to 39 minutes, between 7 and 8. The hour hand is between 7 and 8, closer to 8. The time is 7 : 39.
- 21) **Choice A is correct.** **(3.OA.C.7)** $6 \times 7 = 42$ and $9 \times 5 = 45$. Since $42 < 45$, 6×7 is less than 9×5 .
- 22) **Choice A is correct.** **(3.NF.A.3b)** Divide the numerator and denominator of $\frac{4}{6}$ by 2: $\frac{4 \div 2}{6 \div 2} = \frac{2}{3}$.
- 23) **Choice C is correct.** **(3.NF.A.3a)** $\frac{2}{3} = \frac{4}{6}$ because they both represent two-thirds of the distance from 0 to 1.
- 24) **The correct answer is 27 square units.** **(3.MD.C.7a)** $9 \times 3 = 27$ square units. That means 27 unit tiles cover the rectangle.
- 25) **Choice A is correct.** **(3.NF.A.3)** Both bars show the same amount shaded. $\frac{1}{2}$ and $\frac{2}{4}$ are equal.
- 26) **Choice C is correct.** **(3.NBT.A.3)** $6 \times 50 = 300$ is the greatest because $300 > 280$, $300 > 240$, and $300 > 180$.
- 27) **Choice D is correct.** **(3.MD.C.5b)** $4 \times 7 = 28$ unit square stones.
- 28) **Choice B is correct.** **(3.NF.A.2a)** Line B has equal spacing between all ticks. Line A has unequal spacing.
- 29) **Choice D is correct.** **(3.OA.A.1)** Three tables with nine chairs each means 3 groups of 9. So $3 \times 9 = 27$ chairs. Option B is a common misconception (adding instead of multiplying); C confuses the first factor; D confuses operation.
- 30) **Choice A is correct.** **(3.MD.C.5)** Area measures the space on a surface, which is measured in square units. A sheet of paper's surface can be measured in square centimeters.



Scan me!
For more practice
& answers

Hi, Math Detective!

◇ You did such a great job! You finished 5 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

Testinar.com

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

Realistic tests to build stamina and familiarity.



Standards-Aligned Practice

Questions match Grade 3 math standards and key skills.



Answer Keys & Explanations

Detailed answers that show steps and clear reasoning.



Review & Master Skills

Strengthen concepts in numbers, operations, fractions, geometry, measurement, and more.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers
- ✓ Operations & Algebraic Thinking
- ✓ Number Patterns
- ✓ Fractions & Decimals
- ✓ Measurement & Data
- ✓ Geometry
- ✓ Perimeter, Area & Volume
- ✓ Time & Money
- ✓ Data & Graphs
- ✓ Word Problems
- ✓ And More!



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



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

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

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



Everything Your Child Needs to Succeed in Grade 3 Math!



Perfect For:



Classroom Learning



Homework Support



Test Preparation



Extra Practice & Review