

5 Virginia

SOL

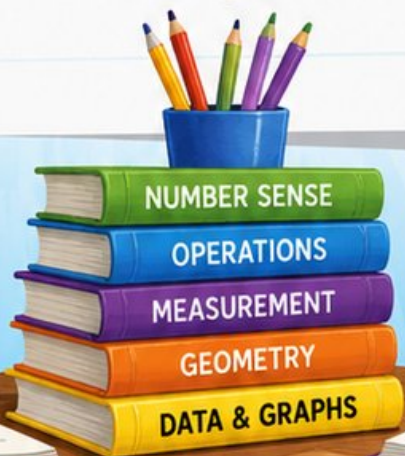
GRADE 3

MATH

PRACTICE TESTS

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

$$24 \div 3 = 8$$



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-
ALIGNED
PRACTICE



DETAILED
ANSWER KEYS



CLEAR
EXPLANATIONS
TO HELP YOU SUCCEED

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

Virginia has mountain passes, river roads, coastal towns, and historic places where details tell the story. 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 Virginia 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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Table of Contents

★ Practice Test 1	_____	13
★ Practice Test 2	_____	25
★ Practice Test 3	_____	36
★ Practice Test 4	_____	48
★ Practice Test 5	_____	60
Practice Test Answer Keys	_____	73
Practice Test Answers and Explanations	_____	77

1) Maria has 328 marbles. She rounds to the nearest 10 to estimate. Then she rounds that answer to the nearest 100. What is the final answer? (This is called double rounding.)

A. 300

C. 330

B. 320

D. 400

2) What number makes the equation true?

$$\square \div 5 = 8$$

A. 50

C. 45

B. 35

D. 40

3) Which fraction is equivalent to $\frac{1}{2}$ by multiplying numerator and denominator by 3?

A. $\frac{2}{6}$

C. $\frac{2}{5}$

B. $\frac{3}{6}$

D. $\frac{4}{6}$

4) Which comparison is true?

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

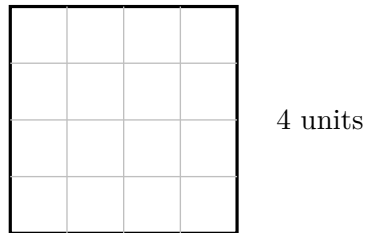
C. $\frac{2}{3} > \frac{2}{2}$ ($3 > 2$)

B. $\frac{2}{2} > \frac{2}{3}$ ($2/2 = \text{whole}$, $2/3 < \text{whole}$)

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



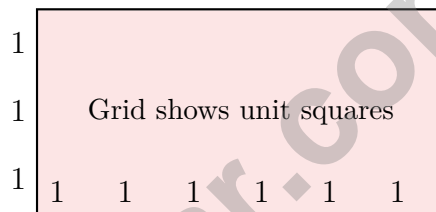
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5) 4 units

What is the area of this square?

- A. 8 sq units C. 12 sq units
 B. 16 sq units D. 20 sq units



6)

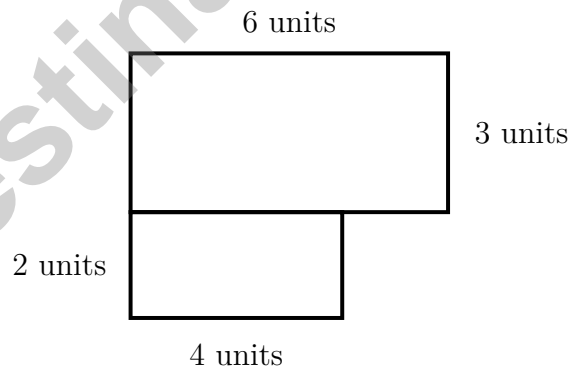
The rectangle above shows 6 unit squares across and 3 unit squares down. Which multiplication statement represents this rectangle's area?

- A. $6 + 3 = 9$ C. $3 + 3 + 3 + 3 + 3 + 3 = 18$
 B. $6 \times 3 = 18$ D. $9 \times 2 = 18$

7) A bag of flour has a mass of 2000 grams. A block of butter has a mass of 250 grams. How many more grams does the flour weigh than the butter?

- A. 250 grams C. 2000 grams
 B. 1750 grams D. 2250 grams

- 8) Eli eats breakfast at 7 : 33 AM. He eats lunch 3 hours and 17 minutes later. What time does Eli eat lunch?
- A. 10 : 30 AM C. 11 : 00 AM
 B. 10 : 45 AM D. 10 : 50 AM
- 9) Lily collects 9 marbles and her friend collects 6 marbles. They put the marbles together and split them into 3 equal groups. How many marbles are in each group?
- A. 3 C. 9
 B. 5 D. 15
- 10) A bakery puts 20 cupcakes into boxes of 5. How many boxes do they fill?
- A. 3 C. 5
 B. 100 D. 4
- 11) An L-shaped deck is shown with dashed lines. Upper part: 6 units by 3 units. Lower left part: 4 units by 2 units. What is the total area?



- A. 15 sq units C. 26 sq units
 B. 30 sq units D. 48 sq units



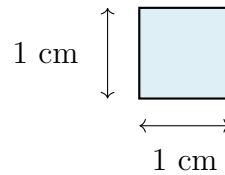
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1) Which fraction is NOT equivalent to $\frac{2}{6}$?

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

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

2) A unit square has side length 1 cm. What is the area of this unit square?



- A. 1 centimeter
 B. 2 square centimeters

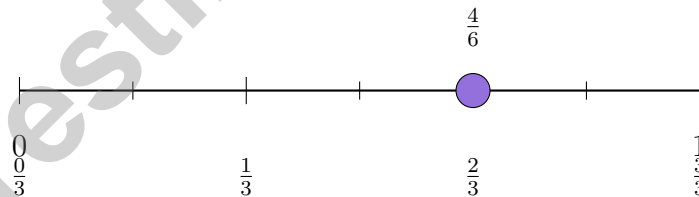
- C. 1 square centimeter
 D. 4 square centimeters

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

- A. Commutative property
 B. Associative property

- C. Distributive property
 D. Identity property

4) Look at the number line. What fraction equals $\frac{4}{6}$?



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

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



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5) Ana says $15 \div 3 = 4$. Is she right? Explain.

A. Yes, she is right.

C. No, the answer is 12.

B. No, the answer is 18.

D. No, the answer is 5.

6) If a number line from 0 to 1 has 8 equal parts, how far is the fifth tick from 0?

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

C. $\frac{5}{8}$

B. $\frac{4}{8}$

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

7) A bar graph shows inches of rainfall. Each unit on the scale represents 10 inches. If a bar is 3 units tall, how many inches of rainfall does it represent?



8) Noah organizes video games on 4 shelves. He puts 7 video games on each shelf. How many video games does Noah have?

A. 28

C. 3

B. 11

D. 21

9) Ava cut a pie into 3 equal pieces and ate 2 pieces. Lily cut her pie into 6 equal pieces and ate 4 pieces. Did they eat the same amount?

A. Yes, they ate the same amount

C. No, Lily ate more

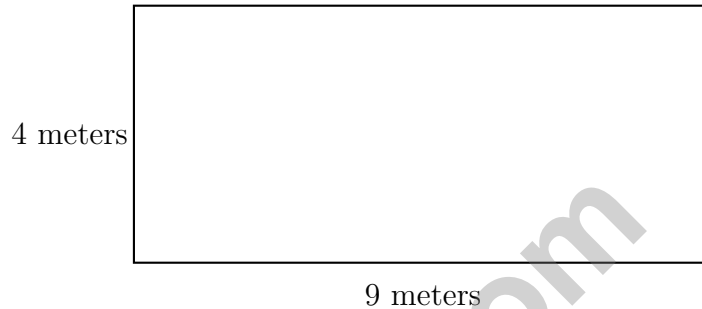
B. No, Ava ate more

D. Cannot be determined



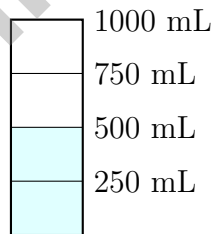
1) A line plot shows book page counts: 50, $50\frac{1}{2}$, 51, $51\frac{1}{2}$, 52 pages. There are two X's at 50 pages, one X at $50\frac{1}{2}$ pages, four X's at 51 pages, one X at $51\frac{1}{2}$ pages, and one X at 52 pages. Which page count appears the least often?

- A. 50 pages
- B. $50\frac{1}{2}$ pages
- C. 51 pages
- D. 52 pages



2) Find the area of the rectangle shown above.

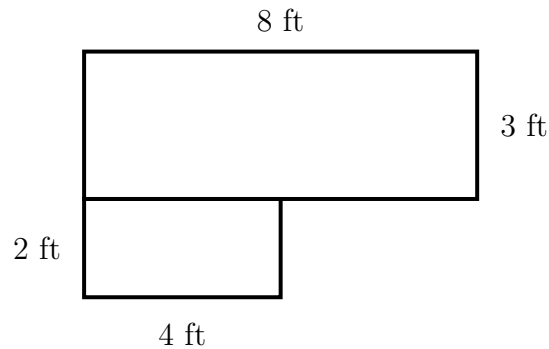
- A. 26 sq m
- B. 36 sq m
- C. 13 sq m
- D. 72 sq m



3) Lily measures water in a measuring cup. The cup shows 500 mL of water. Which amount equals 500 mL?

- A. 250 mL
- B. 750 mL
- C. 500 mL
- D. 1000 mL

- 4) An L-shaped pool is made of two rectangles. The first is 8 ft long and 3 ft wide. The second is 4 ft long and 2 ft wide. What is the total area?



- A. 24 sq ft C. 48 sq ft
 B. 8 sq ft D. 32 sq ft
- 5) There are 5 rows of chairs and 6 chairs in each row. How many chairs are there in total?
- A. 25 chairs C. 35 chairs
 B. 40 chairs D. 30 chairs
- 6) Lily gives 32 stickers equally to 4 friends. Each friend gets the same number of stickers. How many stickers does each friend get?
- A. 6 C. 9
 B. 7 D. 8
- 7) What is 6×40 ? Show your thinking: $6 \times 40 = 6 \times (4 \times 10) = (6 \times 4) \times 10$.
- A. 46 C. 240
 B. 64 D. 2400



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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.NBT.A.1)** 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).
- 2) **Choice D is correct.** **(3.OA.A.4)** Use the inverse: $8 \times 5 = 40$, so $40 \div 5 = 8$.
- 3) **Choice B is correct.** **(3.NF.A.3b)** Multiply numerator and denominator by 3: $\frac{1 \times 3}{2 \times 3} = \frac{3}{6}$.
- 4) **Choice B is correct.** **(3.NF.A.3d)** Same numerator (2): two halves = 1 whole, two thirds = part of a whole. Halves are bigger pieces than thirds. Rule: same numerator, smaller denominator ($2 < 3$) means bigger pieces, so $\frac{2}{2} > \frac{2}{3}$.
- 5) **Choice B is correct.** **(3.MD.C.7)** The square has side length 4. Area = $4 \times 4 = 16$ square units.
- 6) **Choice B is correct.** **(3.MD.C.7b)** Representing area as a rectangular array: multiplying the number of unit squares across (6) by the number down (3) gives $6 \times 3 = 18$ square units. Choice A (9) is the sum; C (18) is correct but inefficient for Grade 3 (repeated addition); D (18) arrives at correct answer but uses wrong factors.
- 7) **Choice B is correct.** **(3.MD.A.2)** Subtract: $2000 - 250 = 1750$ g.
- 8) **Choice D is correct.** **(3.MD.A.1)** $7 : 33 + 3$ hours = $10 : 33$. Then $10 : 33 + 17$ min = $10 : 50$ AM.
- 9) **Choice B is correct.** **(3.OA.D.8)** Step 1: Add the marbles: $9 + 6 = 15$. Step 2: Divide into 3 equal groups: $15 \div 3 = 5$ marbles in each group. (Choice D is the answer to step 1 only.)
- 10) **Choice D is correct.** **(3.OA.A.2)** Measurement division: $20 \div 5 = 4$. There are 4 groups of 5 in 20.
- 11) **Choice C is correct.** **(3.MD.C.7d)** Upper part: $6 \times 3 = 18$ sq units. Lower part: $4 \times 2 = 8$ sq units. Total: $18 + 8 = 26$ sq units.
- 12) **Choice A is correct.** **(3.MD.B.4)** The prompt tells us there is 1 note at $2\frac{1}{2}$ beats.
- 13) **The correct answer is $\frac{1}{2}$.** **(3.NF.A.2a)** The first tick is halfway, or $\frac{1}{2}$.
- 14) **Choice C is correct.** **(3.NF.A.2)** Counting ticks from 0, the dot is at the 4th mark out of 6 equal parts, so it is $\frac{4}{6}$.
- 15) **Choice D is correct.** **(3.OA.A.1)** 3 friends with 8 stickers each means 3 groups of 8. So $3 \times 8 = 24$ stickers in all.
- 16) **Choice B is correct.** **(3.NF.A.3)** $\frac{1}{2}$ and $\frac{2}{4}$ represent the same amount. Both show half of a whole.
- 17) **Choices A and E are correct.** **(3.NF.A.3a)** A: $\frac{1}{2} = \frac{2}{4}$ (both represent one-half of an identical shape). E: $\frac{4}{8} = \frac{1}{2}$ (both represent one-half of an identical shape). B is false: $\frac{2}{3} \neq \frac{3}{4}$ (two-thirds \neq three-fourths). C is false: $\frac{1}{3} \neq \frac{2}{8}$ (one-third \neq one-quarter). D is false: $\frac{3}{6} = \frac{1}{2}$ but $\frac{2}{3}$ is different.
- 18) **Choice A is correct.** **(3.NF.A.1)** When a whole is divided into 8 equal parts, one part is the unit fraction $\frac{1}{8}$ (one-eighth).
- 19) **Choice B is correct.** **(3.G.A.2)** One vertical line and one horizontal line create 4 equal parts. One part is $\frac{1}{4}$.
- 20) **Choice D is correct.** **(3.OA.D.9)** List B increases by 1, then 2, then 3, then 4 (no constant rule). The others are skip-count patterns.
- 21) **Choice C is correct.** **(3.OA.C.7)** $9 \times 8 = 72$. Think $9 \times 8 = 9 \times (10 - 2) = 90 - 18 = 72$.
- 22) **The correct answer is 5 inches.** **(3.MD.D.8)** $30 = 2(10) + 2w = 20 + 2w$, so $2w = 10$ and $w = 5$ in.
- 23) **Choice B is correct.** **(3.NF.A.3c)** 18 sixths = $18 \div 6 = 3$ wholes. Six sixths make one whole.
- 24) **Choice C is correct.** **(3.MD.B.3)** Count: 5 squares in the picture graph. Multiply by scale: $5 \times 2 = 10$ stickers.
- 25) **Choice A is correct.** **(3.MD.C.5)** Area is the amount of space inside a flat shape, measured in square units.
- 26) **Choice B is correct.** **(3.NBT.A.3)** You can decompose 70 as 7×10 , then multiply $4 \times 7 = 28$ first, and finally multiply by 10. This uses the associative property of multiplication.
- 27) **Choice B is correct.** **(3.MD.C.5b)** Count the rows: 2 rows. Count across: 8 unit squares per row. Total: $8 + 8 = 16$ unit squares cover the rectangle.
- 28) **The correct answer is 3.** **(3.NF.A.2b)** $\frac{3}{4}$ is the third tick from 0.
- 29) **Choice A is correct.** **(3.OA.B.6)** This problem requires division: $24 \div 8 = \square$. We use the unknown-factor strategy: $\square \times 8 = 24$. The multiplication fact $8 \times 3 = 24$ tells us each student gets 3 crayons. We find the missing factor using multiplication.



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Star Player Pep Talk

Hi, Star Player!

◇ 5 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 5 tests. It's real now! ★

Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

Star tip: on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

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

Jay Daie

Your Math Coach

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Questions match Grade 3 math standards and key skills.



Answer Keys & Explanations

Detailed answers that show steps and clear reasoning.



Review & Master Skills

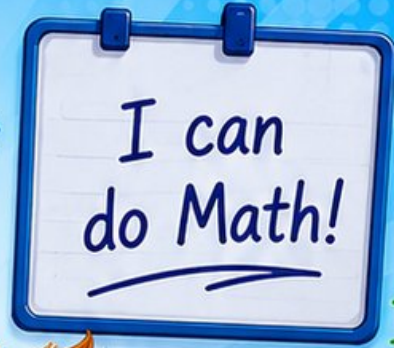
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- ✓ And More!



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



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

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

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



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