

3

Virginia SOL

GRADE 4

MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**5 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
QUESTIONS**



**ANSWER KEY
INCLUDED**

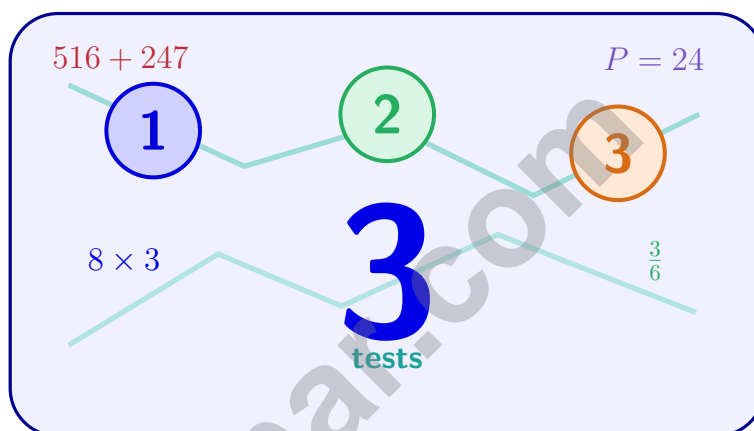
$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



3 Virginia SOL Grade 4 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 4 review, Virginia SOL strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome, Virginia Math Explorer!

Three steady rounds on the Old Dominion math route

This book gives you three full Grade 3 practice tests for SOL. Each round uses blue ridge views, historic roads, and clear thinking habits to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Virginia Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Virginia SOL review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Old Dominion math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Three tests, 90 questions, and a full SOL review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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& answers

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1) Which metric measurement is the longest?

A. 2 kilometers

C. 3,500 meters

B. 9,000 meters

D. 15 kilometers

2) Which expression shows $\frac{3}{5}$ as a sum of unit fractions?

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

C. $\frac{3}{5} + \frac{3}{5} + \frac{3}{5}$

B. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

D. $\frac{3}{5}$

3) Sam has 4 trading cards. Maya has 6 times as many trading cards as Sam. How many trading cards does Maya have?

A. 10

C. 28

B. 20

D. 24

4) Which statement about the diagram is correct?



A. Point B is on segment AC

C. Point C is on segment AB

B. Point A is on segment BC

D. All three points are endpoints

5) Mia watches the hour hand on a clock move from 2 to 5. How many degrees does it move?



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6) What is $\frac{5}{10} + \frac{25}{100}$?

A. $\frac{30}{100}$

B. $\frac{75}{100}$

C. $\frac{5}{25}$

D. $\frac{30}{110}$

7) A line plot with halves shows measurements: $\frac{1}{2}$ in, $\frac{1}{2}$ in, 1 in, $\frac{3}{2}$ in, 1 in, 1 in, $\frac{3}{2}$ in, 1 in. How many total data points are there?

8) What is 2×672 ?

A. 1244

B. 1444

C. 1344

D. 1544

9) Which is the smallest fraction?

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

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

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

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

10) Which shows the same value in all three forms?

A. $\frac{8}{10}$, 0.8, 0.08

B. $\frac{80}{100}$, 0.8, 0.80

C. $\frac{8}{100}$, 0.8, 8 hundredths

D. $\frac{8}{10}$, 0.10, $\frac{80}{100}$

11) Mia shaded $\frac{1}{8}$ on three different fraction bars. What is the total shaded?

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

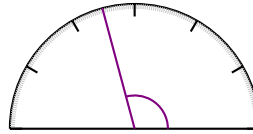
B. $\frac{3}{8}$

C. $\frac{3}{24}$

D. $\frac{1}{24}$



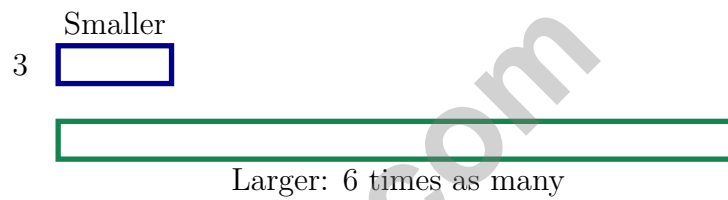
12)



What is the measure of this angle?

- A. 95 degrees C. 125 degrees
 B. 115 degrees D. 105 degrees

13) Look at the bar model. What is the larger amount?



The smaller bar is 3. The larger bar is 6 times as many. What is the larger amount?

- A. 3 C. 6
 B. 9 D. 18

14) How many pairs of parallel sides does a parallelogram have?



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- 1) Mia weighs 42 pounds. Her dog weighs 18 pounds. How much more does Mia weigh than her dog?
- A. 24 pounds C. 18 pounds
 B. 60 pounds D. 42 pounds
- 2) What is $2 \times \frac{4}{5}$?
- A. $\frac{8}{10}$ C. $\frac{4}{10}$
 B. $\frac{6}{5}$ D. $\frac{8}{5}$ or $1\frac{3}{5}$
- 3) Ava has two bags of stickers. One bag has 4 stickers out of 8 total. The other bag has 2 stickers out of 4 total. Are the fractions of stickers equivalent?
- A. Yes, both are $\frac{1}{2}$ C. No, the fractions are different
 B. Yes, both are $\frac{1}{4}$ D. Cannot be determined
- 4) How many 90° angles can fit around a point without overlapping?
- A. 2 C. 4
 B. 3 D. 5
- 5) Noah drew an angle that measures 42 degrees. How many one-degree angles does his angle contain?



1) Ming collected 8,643 stickers. Round this to the nearest hundred.

2) A digit has a value of 600. In which place is this digit located?

A. Ones

B. Tens

C. Hundreds

D. Thousands

3) A factory produces 46 widgets per hour. If the factory runs for 12 hours, how many widgets are produced?

A. 552 widgets

B. 598 widgets

C. 485 widgets

D. 621 widgets

4) In the number 3,456, the digit 5 is in which place?

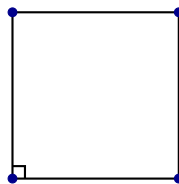
A. Ones place

B. Thousands place

C. Hundreds place

D. Tens place

5) How many right angles are shown in this figure?



A. 1 right angle

B. 2 right angles

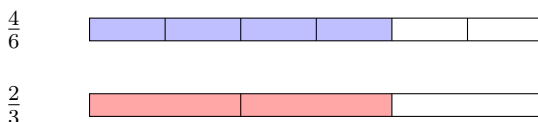
C. 3 right angles

D. 4 right angles



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6) Two fraction bars are shown below. Which statement is correct?

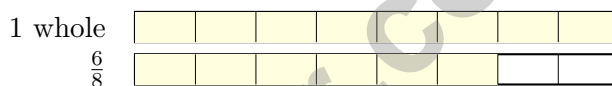


- A. $\frac{4}{6} < \frac{2}{3}$
- B. $\frac{4}{6} > \frac{2}{3}$
- C. $\frac{4}{6} = \frac{2}{3}$
- D. Cannot determine

7) Solve: $\frac{6}{12} + \frac{7}{12} = ?$

- A. $\frac{13}{12}$ or $1\frac{1}{12}$
- B. $\frac{13}{24}$
- C. $\frac{1}{12}$
- D. $\frac{6}{12}$

8) A board is $\frac{14}{8}$ inches long. Decompose this as a mixed number:



- A. $1\frac{6}{8} = \frac{8}{8} + \frac{6}{8}$
- B. $2\frac{1}{8} = \frac{16}{8} + \frac{1}{8}$
- C. $1\frac{3}{8} = \frac{8}{8} + \frac{3}{8}$
- D. $1\frac{5}{8}$ inches

9) A clock hand moves from 12 o'clock to a position where it has rotated 45° . If it then rotates another 35° , what is the total angle of rotation?

- A. 10°
- B. 70°
- C. 80°
- D. 90°

10) What is $7 \times \frac{1}{10}$?

- A. $\frac{7}{10}$
- B. $\frac{10}{7}$
- C. $\frac{1}{70}$
- D. $\frac{7}{100}$

Practice Test Answer Keys

How to use this section with a Grade 4 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 D is correct.** (4.MG.2) Convert all to meters to compare. 2 km = 2,000 m, 9,000 m stays 9,000 m, 3,500 m stays 3,500 m, and 15 km = 15,000 m. The longest is **15 kilometers**.
- 2) **Choice B is correct.** (4.NS.1) A unit fraction always has a numerator of 1. So $\frac{3}{5}$ breaks down into three copies of $\frac{1}{5}$: $\frac{3}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$.
- 3) **Choice D is correct.** (4.MG.2) “6 times as many” tells us to multiply. Maya has 6 groups of Sam’s 4 cards: $6 \times 4 = 24$ trading cards.
- 4) **Choice A is correct.** (4.MG.4) Look at the diagram: point *B* sits right in the middle between *A* and *C*. Since *B* is between them, it’s definitely on segment *AC*.
- 5) **The correct answer is 90.** (4.MG.4) The hour hand moves 30° per hour. From 2 to 5 is 3 hours, so $3 \times 30^\circ = 90^\circ$.
- 6) **Choice B is correct.** (4.CE.3) First, rewrite $\frac{5}{10}$ using hundredths: $\frac{5}{10} = \frac{50}{100}$. Then add: $\frac{50}{100} + \frac{25}{100} = \frac{75}{100}$.
- 7) **The correct answer is 8.** (4.CE.3) Count all the measurements: $\frac{1}{2}$ in appears 2 times, 1 in appears 4 times, and $\frac{3}{2}$ in appears 2 times. So $2 + 4 + 2 = 8$ data points total.
- 8) **Choice C is correct.** (4.NS.1) Use partial products: $2 \times (600 + 70 + 2) = 1200 + 140 + 4 = 1344$.
- 9) **Choice C is correct.** (4.NS.5) All fractions have numerator 2. Larger denominator means smaller pieces, so the biggest denominator (6) gives the smallest fraction.
- 10) **Choice B is correct.** (4.CE.3) Option B shows all the same value: $\frac{80}{100}$, 0.8, and 0.80 are all equal. The trailing zero doesn’t matter.
- 11) **Choice B is correct.** (4.CE.3) Adding three eighths together: $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} = 3 \times \frac{1}{8} = \frac{3}{8}$.
- 12) **Choice D is correct.** (4.NS.1) The ray points to the 105° mark. Since 105° is between the 90° and 120° benchmarks, this is an obtuse angle. The answer is **105 degrees**.
- 13) **Choice D is correct.** (4.PFA.1) The larger bar is 6 times the smaller bar, so we multiply: $3 \times 6 = 18$. The larger amount is **18**.
- 14) **The correct answer is 2.** (4.MG.4) A parallelogram is defined by having two pairs of opposite sides that are parallel to each other. The answer is **2**.
- 15) **The correct answer is A, D.** (4.NS.1) Use long division: $15 \div 8 = 1$ r7, bring down the 1 to get $71 \div 8 = 8$ r7, bring down the 2 to get $72 \div 8 = 9$. The quotient is 189 with no remainder. Statements A and D are correct (each site gets exactly 189 bricks, and the quotient is 189). Statements B, C, and E are incorrect because there is no remainder, each site gets 189 not 190, and the first step has the wrong remainder.
- 16) **Choice B is correct.** (4.MG.4) The exterior of an angle is all the space outside the angle.
- 17) **Choice D is correct.** (4.NS.1) Step 1: $30,000 + 6,000 = 36,000$. Step 2: $36,000 + 500 + 20 + 8 = 36,528$ ✓
- 18) **Choice A is correct.** (4.MG.4) The sector is marked with 90 one-degree angle tick marks, so its measure is **90°** .
- 19) **Choice A is correct.** (4.CE.3) For $3 \times \frac{2}{5}$, we need 3 bars, each divided into 5 parts with 2 parts shaded in each. Picture A shows three bars with two-fifths shaded in each bar. The answer is Picture A.
- 20) **Choice B is correct.** (4.CE.3) Carter runs $\frac{3}{8}$ mile each morning for 3 mornings. We multiply: $3 \times \frac{3}{8} = \frac{9}{8}$ miles.
- 21) **Choice D is correct.** (4.CE.1) Two steps! Step 1: find Kai’s total cars. $15 + 9 = 24$ cars. Step 2: equal boxes means divide: $24 \div 4 = 6$ cars in each box.
- 22) **Choice B is correct.** (4.NS.1) Red arrow jumps to 1 whole ($\frac{3}{3}$), then the red dot continues $\frac{2}{3}$ more. Total: $\frac{3}{3} + \frac{2}{3} = \frac{5}{3}$ ✓.
- 23) **Choice D is correct.** (4.NS.1) We’re rounding to the nearest thousand. Look at the hundreds digit: $9 \geq 5$, so round UP! But 9 becomes 10—a rollover! So $29,999 \rightarrow 30,000$. ✓
- 24) **Choice D is correct.** (4.NS.5) Multiply both numerator and denominator by 2 to get a denominator of 10: $\frac{1}{5} = \frac{1 \times 2}{5 \times 2} = \frac{2}{10}$.
- 25) **Choice A is correct.** (4.NS.1) When subtracting with like denominators, just subtract the numerators: $8 - 5 = 3$. Answer: $\frac{3}{10}$.
- 26) **Choice C is correct.** (4.MG.2) Chen rides 18 kilometers on Saturday and 25 kilometers on Sunday. Add: $18 + 25 = 43$ km. His total distance is **43 kilometers**.



Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 3 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

PRACTICE TODAY. SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

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Develop logical thinking and effective solution strategies.



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Build the confidence needed to do your best on test day.

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