

9

New Hampshire

NH SAS

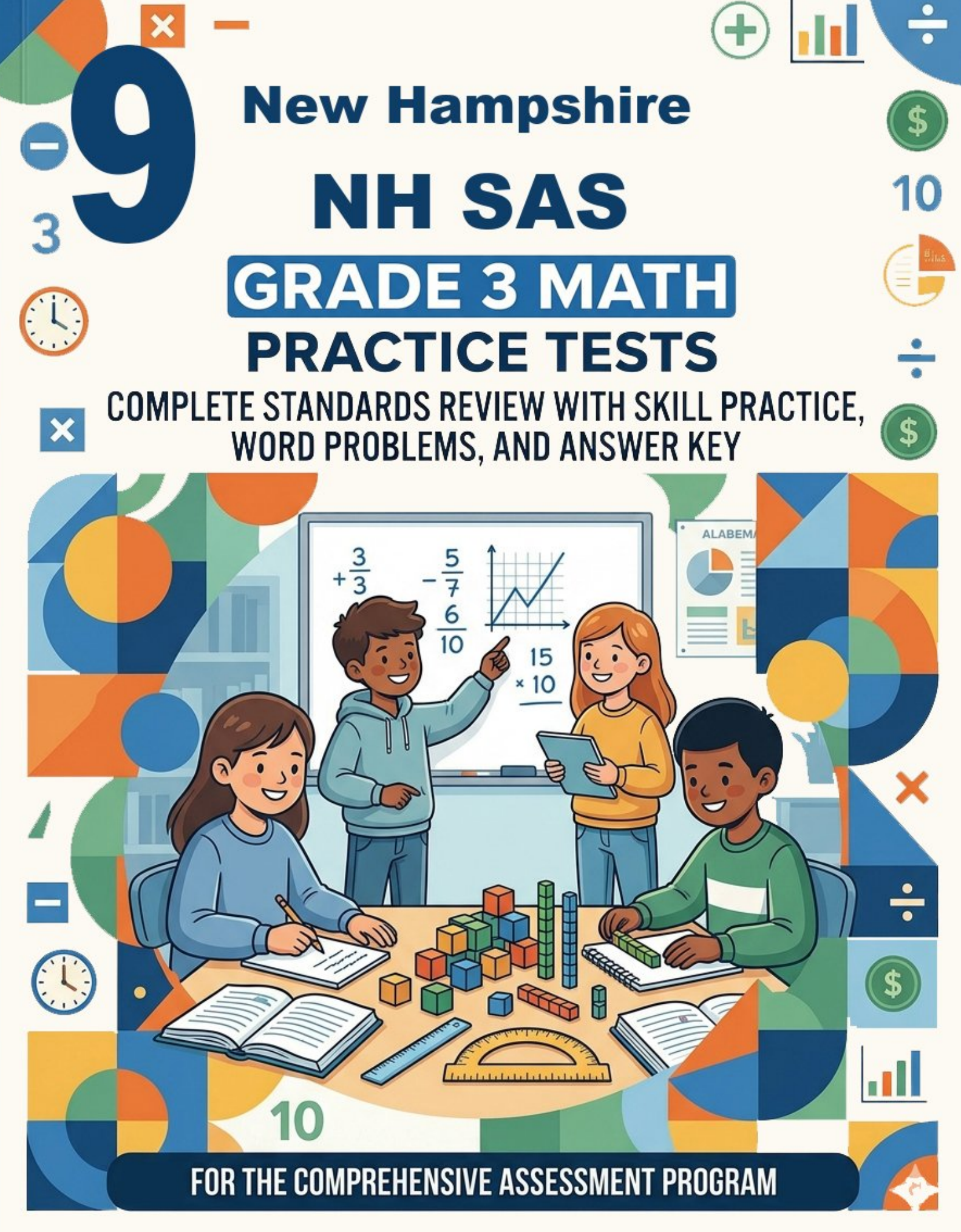
GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE, WORD PROBLEMS, AND ANSWER KEY



10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM



9 New Hampshire NH SAS Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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New Hampshire, Start Your Nine-Round Math Map

A clever Grade 3 run from first try to confident finish

This book gives you nine chances to practice like a thoughtful New Hampshire NH SAS test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

New Hampshire has granite peaks, forest paths, maple farms, clear streams, and thoughtful classroom work, where careful steps matter. Strong math follows that same idea: notice what the question asks, choose a useful tool, show the work, and solve before moving on.

Your New Hampshire Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear New Hampshire review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In New Hampshire, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with NH SAS support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A New Hampshire standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.



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1) Lily sees a number line from 0 to 1 with 8 equal parts. She wants to find $\frac{2}{8}$. How many tick marks does she count from 0?

- A. 8 ticks C. 2 ticks
 B. 4 ticks D. 1 tick

2) Ava measures a rectangular mat that is 7 units by 5 units. What is its area in square units?

- A. 12 sq units C. 24 sq units
 B. 35 sq units D. 70 sq units

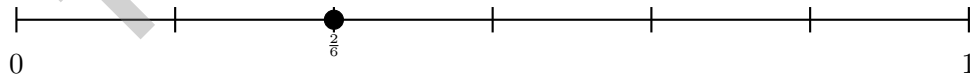
3) Mia weighs three items on a scale:

Item	Mass
Apple	200 g
Orange	150 g
Banana	120 g

Which item has the greatest mass?

- A. Apple C. Banana
 B. Orange D. All the same

4) On a 6-part number line, $\frac{2}{6}$ is between which two fractions?



- A. Between 0 and $\frac{1}{6}$ C. Between $\frac{3}{6}$ and $\frac{4}{6}$
 B. Between $\frac{1}{6}$ and $\frac{3}{6}$ D. Between $\frac{5}{6}$ and 1



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5) A cake is divided into 6 equal pieces. If you eat $\frac{1}{6}$, $\frac{1}{6}$, and $\frac{1}{6}$, how much of the cake do you eat in total?

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

B. $\frac{1}{6}$

C. $\frac{1}{18}$

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

6) Emma measured twig lengths in inches. At the 4 inch mark, there are 5 X's. At the $4\frac{1}{4}$ inch mark, there are 3 X's. How many more twigs are exactly 4 inches long than $4\frac{1}{4}$ inches long?

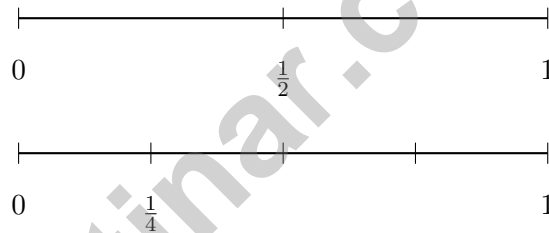
A. 1

B. 2

C. 3

D. 8

7) Two number lines both show 0 to 1. One is divided into 2 parts, another into 4 parts. Which unit fraction is bigger?



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

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

C. They are equal

D. Cannot compare

8) Which missing divisor makes the number sentence true?

$$24 \div _ = 4$$

A. 6

B. 20

C. 28

D. 8



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

- A. $\frac{2}{6}$
 B. $\frac{3}{6}$

- C. $\frac{2}{5}$
 D. $\frac{4}{6}$

10) Ben reads for 18 minutes starting at 4 : 07 PM. At what time does Ben stop reading?

- A. 4 : 15 PM
 B. 4 : 20 PM

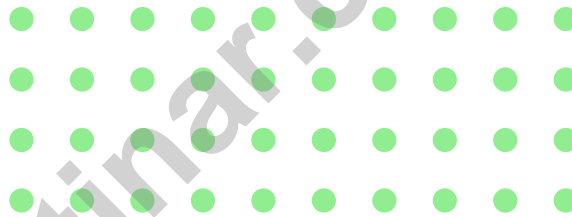
- C. 4 : 25 PM
 D. 4 : 30 PM

11) Ava has 3 bags with 6 marbles in each bag. Which multiplication sentence matches?

- A. $3 + 6 = 9$
 B. $3 \times 3 = 9$

- C. $6 + 6 = 12$
 D. $3 \times 6 = 18$

12) There are 4 rows of apples. Each row has 10 apples. How many apples are there?



$$4 \times 10 = ?$$

- A. 14
 B. 401

- C. 410
 D. 40

13) A bar graph shows games played. Soccer bar is 3 units, basketball bar is 4 units, tag bar is 2 units. Each unit is 5 games. How many total games were played?

- A. 45
 B. 50

- C. 55
 D. 60



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1) The bar shows $\frac{8}{4}$. How many whole units?



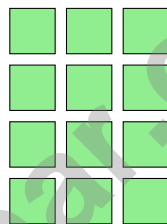
- A. 1 whole C. 4 wholes
 B. 2 wholes D. 8 wholes

2) What number makes the equation true?

$$20 \div 4 = \square$$

- A. 4 C. 6
 B. 7 D. 5

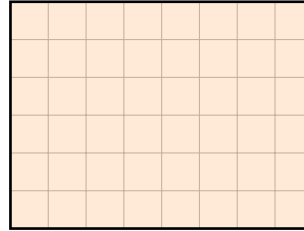
3)



What is the product shown by this array?

- A. 15 C. 9
 B. 7 D. 12

- 4) Look at this grid below. Count the unit squares that cover the rectangle. Show your counting method: Did you count by rows, by columns, or another way?



What is the total area?

- 5) Sam's swim practice starts at 4 : 30 PM and ends at 5 : 42 PM. How many minutes is the practice?
- A. 60 minutes C. 72 minutes
 B. 70 minutes D. 75 minutes
- 6) What is 9×30 ?
- A. 27 (forgot to add zero) C. 270
 B. 2700 (added two zeros) D. 39 (added instead of multiplying)
- 7) Two cakes are the same size. Cake A is cut into 2 slices with 1 eaten. Cake B is cut into 6 slices with 3 eaten. How much cake is left?
- A. The same amount is left. C. Cake B has more left.
 B. Cake A has more left. D. Cannot compare.



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6) If Ava eats $\frac{2}{4}$ of a bar divided into halves, how many halves did she eat?



7)

The number line shows tick marks dividing the distance from 0 to 3 into thirds. Which fraction labels point T ?

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

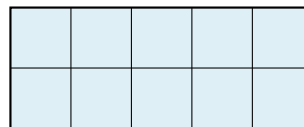
- C. $\frac{4}{3}$
 D. $\frac{3}{2}$

8) Which fraction is equal to the whole number 5?

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

- C. $\frac{1}{5}$
 D. $\frac{5}{2}$

9)



What is the total area of this grid measured in unit squares?

- A. 7 square units
 B. 10 square units

- C. 12 square units
 D. 15 square units



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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 C is correct. **(3.NF.A.2b)** $\frac{2}{8}$ means 2 out of 8 equal parts. Count 2 ticks from 0.
- 2) Choice B is correct. **(3.MD.C.5b)** $7 \times 5 = 35$ square units.
- 3) Choice A is correct. **(3.MD.A.2)** 200 g is the largest mass.
- 4) Choice B is correct. **(3.NF.A.2)** $\frac{2}{6}$ is between $\frac{1}{6}$ (tick 1) and $\frac{3}{6}$ (tick 3). It's the middle tick.
- 5) Choice A is correct. **(3.NF.A.1)** When you count three unit fractions of $\frac{1}{6}$, you add: $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{3}{6}$.
- 6) Choice B is correct. **(3.MD.B.4)** Subtract: $5 - 3 = 2$ more twigs are 4 inches long.
- 7) Choice A is correct. **(3.NF.A.2a)** Fewer parts mean larger individual pieces. $\frac{1}{2} > \frac{1}{4}$.
- 8) Choice A is correct. **(3.OA.A.2)** If $24 \div ? = 4$, then $? = 24 \div 4 = 6$. Check: $24 \div 6 = 4$ is correct.
- 9) Choice B is correct. **(3.NF.A.3b)** Multiply numerator and denominator by 3: $\frac{1 \times 3}{2 \times 3} = \frac{3}{6}$.
- 10) Choice C is correct. **(3.MD.A.1)** $4 : 07 + 18 \text{ min} = 4 : 25 \text{ PM}$.
- 11) Choice D is correct. **(3.OA.A.1)** Three bags with 6 marbles each means 3 groups of 6. So $3 \times 6 = 6 + 6 + 6 = 18$.
- 12) Choice D is correct. **(3.NBT.A.3)** The array shows 4 rows with 10 apples each: $4 \times 10 = 40$ apples.
- 13) Choice A is correct. **(3.MD.B.3)** Soccer: $3 \times 5 = 15$. Basketball: $4 \times 5 = 20$. Tag: $2 \times 5 = 10$. Total: $15 + 20 + 10 = 45$.
- 14) Choices A and B are correct. **(3.OA.B.6)** The fact family for 5, 6, and 30 includes multiplication facts and related division facts. Options A ($5 \times 6 = 30$) and B ($30 \div 5 = 6$) are correct. C, D, and E are addition or subtraction statements, so they are not part of this multiplication/division fact family.
- 15) The correct answer is 2. **(3.NF.A.3a)** $\frac{1}{3}$ is equivalent to $\frac{2}{6}$.
- 16) Choice C is correct. **(3.OA.D.9)** Both give 12. The multiplication table shows that $3 \times 4 = 12$ and $4 \times 3 = 12$.
- 17) Choice A is correct. **(3.G.A.2)** One shaded column out of three equal columns is $\frac{1}{3}$ of the rectangle.
- 18) Choice B is correct. **(3.MD.C.7d)** Left rectangle: $3 \times 2 = 6$ sq units. Right rectangle: $3 \times 1 = 3$ sq units. Total: $6 + 3 = 9$ sq units.
- 19) Choice C is correct. **(3.MD.C.7)** Rectangle 1: $2 \times 9 = 18$ sq units. Rectangle 2: $3 \times ? = 18$. So $? = 18 \div 3 = 6$ units.
- 20) Choice A is correct. **(3.OA.D.8)** First add: $15 + 9 = 24$ cars. Then divide by 3 children: $24 \div 3 = 8$ cars per child. Choice A correctly shows both steps with parentheses.
- 21) Choice A is correct. **(3.NF.A.3)** Both pies show the same shaded region. $\frac{1}{4}$ and $\frac{2}{8}$ are equivalent.
- 22) Choice A is correct. **(3.OA.A.4)** To find the number of hours, divide total dollars by dollars per hour: $56 \div 8 = 7$.
- 23) The correct answer is 1. **(3.NF.A.3c)** When numerator = denominator, the fraction equals 1 whole. $\frac{5}{5} = 1$.
- 24) Choice D is correct. **(3.OA.A.3)** Multiply: 5 tables \times 6 chairs per table = 30 chairs.
- 25) Choice D is correct. **(3.NBT.A.1)** In rounding, "look at the digit" means check its value to apply the rule: if it's 5 or more, round up; if less than 5, round down.
- 26) Choice D is correct. **(3.MD.C.5)** Rectangle A: $2 \times 6 = 12$ square units. Rectangle B: $3 \times 4 = 12$ square units. Both have the same area.
- 27) Choice B is correct. **(3.NF.A.3d)** The dot is positioned at the third quarter mark on the number line, which is $\frac{3}{4}$. This is greater than $\frac{1}{2}$.
- 28) Choice A is correct. **(3.MD.C.5a)** Shape W is $2 \times 2 = 4$ unit squares. Shape X is $3 \times 1 = 3$ unit squares. Since $4 > 3$, Shape W has more unit squares.
- 29) The correct answer is 72 square units. **(3.MD.C.7c)** $2 + 6 = 8$, and $9 \times 8 = 72$ square units.
- 30) Choice C is correct. **(3.MD.C.7b)** Area = height \times width = $7 \times 4 = 28$ square feet.

Practice Test 2 Answers and Explanations



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Hi, Math Detective!

◇ You did such a great job! You finished 9 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

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