

9

Arizona AASA

GRADE 3 MATH PRACTICE TESTS

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

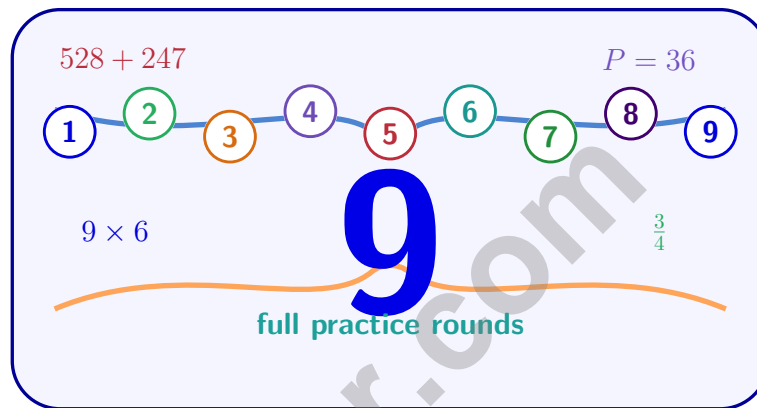


10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 Arizona AASA 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.

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Arizona, Start Your Nine-Round Math Route

A careful Grade 3 quest from first try to confident finish

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

Arizona has desert trails, canyon shadows, cactus blooms, bright skies, and sunlit classroom windows, where careful steps matter. Strong math follows that same idea: estimate what the question asks, choose a useful tool, show the work, and prove before moving on.

Your Arizona 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 Arizona 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 Arizona, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with AASA 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 Arizona 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.

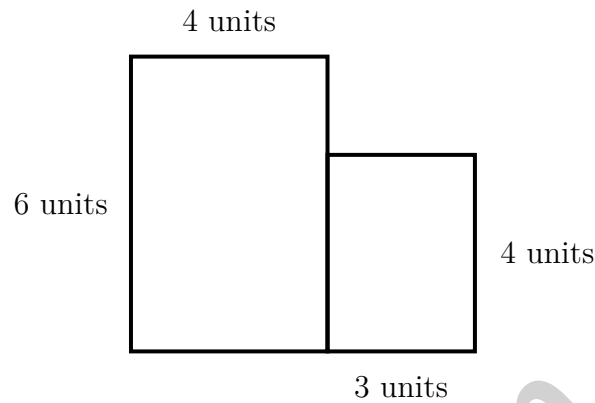


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For more practice
& answers

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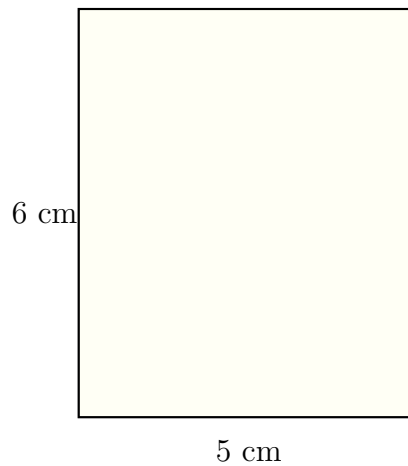
★ Practice Test 1	_____	15
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- 5) An L-shaped playground is divided by dashed lines. The left rectangle is 4 units by 6 units. The right rectangle is 3 units by 4 units. What is the total area?



- A. 36 sq units
- B. 24 sq units
- C. 12 sq units
- D. 72 sq units
- 6) Look at the circles. Circle 1 shows $\frac{4}{8}$ shaded. Circle 2 shows $\frac{1}{2}$ shaded. If both circles are the same size, which is true?
- A. The circles are not the same.
- B. Circle 2 has more shaded.
- C. Both have the same shaded amount.
- D. Circle 1 has more shaded.





7)

A rectangular notebook is 5 centimeters wide and 6 centimeters tall. Find the area.

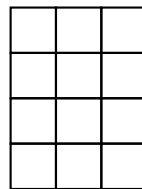
- A. 11 sq cm C. 22 sq cm
 B. 30 sq cm D. 60 sq cm

8) What number makes the equation true?

$$\square \div 4 = 6$$

- A. 10 C. 28
 B. 18 D. 24

9) Ava is looking at this shape made of unit squares:



How many unit squares cover this shape?

- A. 7 unit squares C. 12 unit squares
 B. 10 unit squares D. 15 unit squares



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1) A rectangle has perimeter 20 cm. If the length is 6 cm, what is the width?

A. 4 cm

C. 8 cm

B. 2 cm

D. 14 cm

2) Ben reads from 2 : 17 to 3 : 05. How many minutes does he read?

3) A square garden is covered with unit square tiles. Each side of the garden is 5 units long. How many unit square tiles are needed?

A. 25 tiles

C. 10 tiles

B. 20 tiles

D. 30 tiles

4) Mia tiles a rectangle that is 3 tiles wide and 6 tiles tall. Jordan tiles a rectangle that is 2 tiles wide and 9 tiles tall. Whose rectangle has a bigger area?

A. Mia's rectangle

C. They have the same area

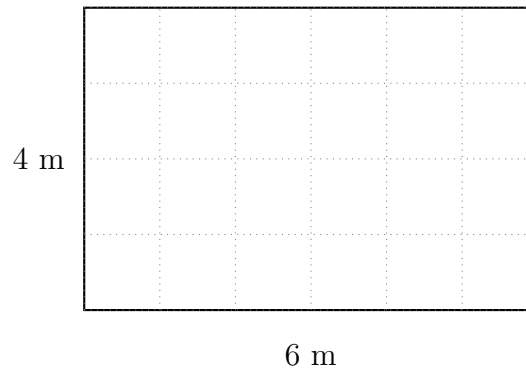
B. Jordan's rectangle

D. Cannot tell from this information

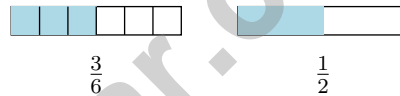


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- 1) A rectangular rug is 6 meters long and 4 meters wide. What is the area of the rug?



- A. 10 sq m C. 20 sq m
 B. 24 sq m D. 12 sq m
- 2) Look at the fraction bars. Are $\frac{3}{6}$ and $\frac{1}{2}$ equivalent?



- A. Yes, both show half C. No, $\frac{1}{2}$ is larger
 B. No, $\frac{3}{6}$ is larger D. Cannot tell from the bars
- 3) What fraction is the third tick on a number line split into 6 equal parts?



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& answers

4) Lily gives 2 of her 8 stickers away. What fraction did she give?

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

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

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

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

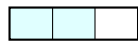
5) How many unit fractions of $\frac{1}{4}$ make a whole?

A. 2

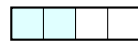
B. 3

C. 4

D. 8



$$\frac{2}{3}$$



$$\frac{2}{4}$$

6)

Compare $\frac{2}{3}$ and $\frac{2}{4}$. Which is true?

A. $\frac{2}{3} < \frac{2}{4}$ (bigger denominator = bigger fraction)

B. $\frac{2}{3} = \frac{2}{4}$ (both have numerator 2)

C. $\frac{2}{3} > \frac{2}{4}$

D. $\frac{2}{4} > \frac{2}{3}$ (4 > 3, so $\frac{2}{4}$ is larger)

7) A bar graph shows books. Maya's bar is 7 units (scale: 2 books per unit). Leo's bar is 5 units (scale: 2 books per unit). How many fewer books does Leo have than Maya?



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.3)** $\frac{1}{3}$ and $\frac{2}{6}$ both equal one-third of a whole.
- 2) **Choice B is correct.** **(3.MD.A.1a)** $7:20 + 87 \text{ min} = 7:20 + 60 \text{ min} + 27 \text{ min} = 8:20 + 27 \text{ min} = 8:47 \text{ PM}$.
- 3) **Choice B is correct.** **(3.OA.D.8)** Step 1: Find total bottles: $6 \times 9 = 54$ bottles. Step 2: Subtract: $54 - 15 = 39$ bottles left. (Choice D is step 1 only; choice C is incorrect.)
- 4) **The correct answer is 36 square units.** **(3.MD.C.5)** Count the square units by rows: $6 \times 6 = 36$ square units.
- 5) **Choice A is correct.** **(3.MD.C.8)** Left: $4 \times 6 = 24$ sq units. Right: $3 \times 4 = 12$ sq units. Total: $24 + 12 = 36$ sq units.
- 6) **Choice C is correct.** **(3.NF.A.2)** $\frac{4}{8} = \frac{1}{2}$. Both represent one-half of their circles.
- 7) **Choice B is correct.** **(3.MD.C.8)** Area = width \times height = $5 \times 6 = 30$ square centimeters.
- 8) **Choice D is correct.** **(3.OA.A.4)** Use the inverse: $6 \times 4 = 24$, so $24 \div 4 = 6$. Check: $24 \div 4 = 6$.
- 9) **Choice C is correct.** **(3.MD.C.5)** 3 columns and 4 rows: $3 \times 4 = 12$ unit squares.
- 10) **Choice D is correct.** **(3.OA.A.1)** $3 \times 6 = 18$ (three groups of six). James added $3 + 6 = 9$ instead of multiplying.
- 11) **Choice A is correct.** **(3.NF.A.3)** Same numerator (1): both fractions take 1 piece from their bar. But the first bar is divided in half (larger piece), the second in thirds (smaller piece). One half $>$ one third. Visually: the green shaded area is larger in the first bar.
- 12) **Choice C is correct.** **(3.MD.C.6)** Area = $5 \times 4 = 20$ square feet.
- 13) **The correct answer is 4 units.** **(3.MD.C.7)** Area = length \times width. Since $24 = 6 \times w$, the missing width is 4 units.
- 14) **Choice C is correct.** **(3.G.A.2)** $\frac{10}{2}$ means 10 halves. 2 halves make 1 whole, so $10 \div 2 = 5$ wholes.
- 15) **Choices A and B are correct.** **(3.MD.B.3)** Each star represents 2 stickers. A is true because $5 \times 2 = 10$, and B is true because $3 \times 2 = 6$. C should be 8, not 9; D should be 12, not 18; and E should be 4, not 1.
- 16) **Choice B is correct.** **(3.NBT.A.1)** Numbers from 45 to 54 round to 50. Choice A (48) rounds to 50, but is not between 50–60. Choice B (52) is in range 50–60 and rounds to 50 (ones digit $2 < 5$). Choice C (56) rounds to 60. Choice D is 60 itself, rounds to 60.
- 17) **Choice B is correct.** **(3.NBT.A.3)** The chart shows 6 tens and 0 ones, which is $6 \times 10 = 60$.
- 18) **Choice B is correct.** **(3.G.A.2)** One half divided into 2 equal parts creates quarters. One quarter is $\frac{1}{4}$.
- 19) **Choice A is correct.** **(3.NF.A.1)** Fewer parts mean larger individual pieces. $\frac{1}{2} > \frac{1}{4}$.
- 20) **Choice B is correct.** **(3.NF.A.3)** The numerator was multiplied by 2 (from 1 to 2). Multiply the denominator by 2: $3 \times 2 = 6$. So $\frac{1}{3} = \frac{2}{6}$.
- 21) **Choice B is correct.** **(3.NF.A.1)** The rectangle is divided into 6 equal parts. One part is shaded, so the shaded fraction is $\frac{1}{6}$ (one-sixth).
- 22) **Choice C is correct.** **(3.MD.C.8)** Wide rectangle: $8 \times 3 = 24$ square units.
- 23) **Choice A is correct.** **(3.OA.D.9)** The pattern shows 1, 2, 3, 4, so the next number is 5.
- 24) **The correct answer is 383.** **(3.NBT.A.2)** Add to find the starting amount: $145 + 238 = 383$. Check: $383 - 145 = 238$.
- 25) **Choice B is correct.** **(3.NF.A.2)** $\frac{4}{8}$ and $\frac{2}{4}$ mark the exact same point: the middle of the line. They name the same location.
- 26) **Choice C is correct.** **(3.OA.C.7)** Looking at the row for 6, the pattern continues: $6 \times 9 = 54$.
- 27) **Choice C is correct.** **(3.MD.A.2)** Add: $5 + 2 = 7$ kg.
- 28) **Choice D is correct.** **(3.NF.A.2)** $\frac{3}{3} = 1$, so the tick is at the right endpoint of the 0-to-1 segment.
- 29) **Choice A is correct.** **(3.OA.A.2)** The picture shows 18 items shared into 3 equal groups of 6 each. So $18 \div 3 = 6$.
- 30) **Choice D is correct.** **(3.OA.B.6)** The unknown factor in $\square \times 3 = 18$ is 6. This is exactly the same as $18 \div 3 = 6$. Multiplication and division are inverse operations.

Practice Test 2 Answers and Explanations



Hi, Math Pilot!

◇ 9 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

STRONG TODAY. SUCCESS TOMORROW.

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9
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