

5

Arizona AASA

Standards-Aligned Review with
Mixed Practice and Answer Key



5 Arizona AASA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five complete 30-question Grade 4 practice rounds for AASA, built around canyon trails, desert sunsets, and sharp observation, with answer keys and clear explanations for every item.

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Welcome, Arizona Math Explorer!

Five steady rounds on the Grand Canyon math route

This book gives you five full Grade 4 practice tests for AASA. Each round uses canyon trails, desert sunsets, and sharp observation to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Arizona 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 Arizona AASA 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 Grand Canyon 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?

Five tests, 150 questions, and a full AASA review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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.

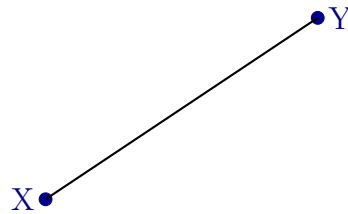


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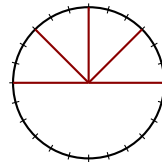
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1) What are the endpoints of this line segment?



- A. X and Y
- B. Only X
- C. Only Y
- D. The midpoint
- 2) A student uses a protractor to measure two adjacent angles at a vertex. One angle is 41° and the other is 139° . What is the combined measure of both angles?
- A. 98°
- B. 139°
- C. 180°
- D. 41°
- 3) Which part of an angle is the point where the two rays meet?
- A. The side
- B. The vertex
- C. The arc
- D. The exterior



4)

A full circle is shown with several rays drawn inside. How many degrees are in the full circle?

- A. 90°
- B. 180°
- C. 360°
- D. 720°



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5) Ava has $\frac{2}{10}$ of a pizza. What fraction with denominator 100 is this equal to?

A. $\frac{2}{100}$

C. $\frac{20}{100}$

B. $\frac{12}{100}$

D. $\frac{22}{100}$

6) Amir needs 45 grams of butter for a recipe. He has 60 grams. How much extra butter does he have?

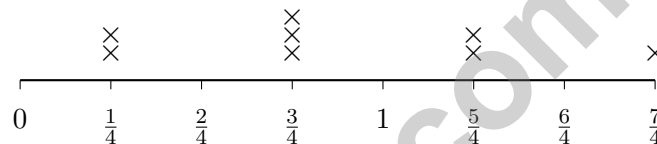
 A. 15 grams

 C. 60 grams

 B. 45 grams

 D. 105 grams

7) Here is a line plot with fourths:



How many X marks are at measurements that are exactly $\frac{3}{4}$ inch or greater?

 A. 3

 C. 5

 B. 4

 D. 6

8) Which number rounds to 70,000 when rounded to the nearest ten thousand?

 A. 64,999

 C. 75,001

 B. 74,500

 D. 75,499

9) What is $\frac{5}{6} - \frac{2}{6}$?

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

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

B. $\frac{7}{6}$

D. $\frac{3}{12}$



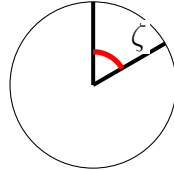
1) Noah's plant is 0.6 meters tall. Which fraction shows this height?

A. $\frac{6}{100}$ meters

B. $\frac{6}{10}$ meters

C. $\frac{60}{10}$ meters

D. $\frac{600}{10}$ meters



2)

What is the measure of angle ζ ?

A. 30°

B. 45°

C. 60°

D. 75°

3) Sam has 3 dimes and 30 pennies. Which shows why these amounts are equal?

A. 3 dimes = $\frac{3}{10}$ dollar; 30 pennies = $\frac{30}{100}$ dollar

B. 3 dimes = $\frac{30}{10}$ dollar; 30 pennies = $\frac{30}{100}$ dollar

C. 3 dimes = $\frac{3}{100}$ dollar; 30 pennies = $\frac{30}{100}$ dollar

D. 3 dimes = $\frac{13}{10}$ dollar; 30 pennies = $\frac{30}{100}$ dollar

4) An ant model is 5 centimeters long. How many millimeters is this?

A. 5

B. 50

C. 500

D. 5,000



5) Which is true?

A. $\frac{4}{10} > \frac{8}{10}$
 B. $\frac{4}{10} = \frac{8}{10}$

C. $\frac{4}{10} < \frac{8}{10}$
 D. Cannot compare



6) $\frac{4}{6}$ sugar $\frac{2}{6}$ flour

A cake recipe uses $\frac{4}{6}$ cup of sugar and $\frac{2}{6}$ cup of flour. What is the total amount of sugar and flour combined?

A. $\frac{6}{6}$
 B. $\frac{6}{12}$

C. $\frac{2}{6}$
 D. $\frac{3}{6}$

7) Which fraction is equivalent to $\frac{4}{8}$?

A. $\frac{1}{4}$
 B. $\frac{5}{8}$

C. $\frac{3}{4}$
 D. $\frac{1}{2}$

8) How many lines of symmetry does a square have?

A. 1
 B. 2

C. 3
 D. 4

9) What is 4×328 ?

A. 1200
 B. 1400

C. 1312
 D. 1496



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6) How many numbers from 20 to 30 are divisible by 2?

A. 4

C. 6

B. 5

D. 7

7) What is $34,567 + 12,321$?

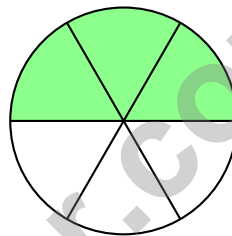
A. 46,888

C. 47,888

B. 46,788

D. 46,978

8) Look at the circle divided into equal parts. Which expression shows the shaded amount as a sum of unit fractions?



Pie divided into 6 equal slices

A. $\frac{1}{6} + \frac{1}{6} + \frac{1}{6}$

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

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

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

9) Look at the growing pattern of blocks:



Figure 1

Figure 2

Figure 3

How many blocks are in Figure 8?

A. 6

C. 10

B. 12

D. 8



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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

- Choice A is correct.** **(4.G.A.1)** Every line segment has exactly two endpoints — the places where it starts and stops. Here that's X and Y .
- Choice C is correct.** **(4.MD.C.7)** These two adjacent angles form a straight line together: $41^\circ + 139^\circ = 180^\circ$.
- Choice B is correct.** **(4.MD.C.5)** The vertex is the point where the two rays of an angle meet.
- Choice C is correct.** **(4.MD.C.5)** A full circle is a 360° angle—it turns through **360** one-degree angles.
- Choice C is correct.** **(4.NF.C.5)** To convert $\frac{2}{10}$ to a fraction with denominator 100, multiply both numerator and denominator by 10: $\frac{2}{10} = \frac{2 \times 10}{10 \times 10} = \frac{20}{100}$.
- Choice A is correct.** **(4.MD.A.2)** Amir has 60 grams of butter but only needs 45 grams. Subtract: $60 - 45 = 15$ grams. He has **15** grams extra.
- Choice D is correct.** **(4.MD.B.4)** Count X marks at values $\geq \frac{3}{4}$ inch. At $\frac{3}{4}$ inch: 3 marks. At $\frac{5}{4}$ inches: 2 marks. At $\frac{7}{4}$ inches: 1 mark. Total: $3 + 2 + 1 = 6$ marks.
- Choice B is correct.** **(4.NBT.A.3)** Rounding to the nearest ten thousand means we look at the thousands digit of each option. Option B (74,500): thousands digit is $4 < 5$, rounds DOWN to **70,000**. ✓ Option A (64,999): thousands digit is $4 < 5$, rounds DOWN to 60,000. Option C (75,001): thousands digit is $5 \geq 5$, rounds UP to 80,000. Option D (75,499): thousands digit is $5 \geq 5$, rounds UP to 80,000.
- Choice A is correct.** **(4.NF.B.3)** Same denominator for subtraction too! Just subtract numerators: $5 - 2 = 3$, keep the denominator. Result: $\frac{3}{6}$.
- Choice C is correct.** **(4.MD.A.1)** 1 kilogram = 1,000 grams. So $6 \text{ kg} = 6 \times 1,000 = 6,000 \text{ g}$.
- Choice D is correct.** **(4.OA.A.3)** Two steps! Step 1: total players from all three teams: $18 + 22 + 20 = 60$. Step 2: divide into 8 groups: $60 \div 8 = 7$ remainder 4. So each group has 7 players with 4 left over. Check: $7 \times 8 = 56$, and $60 - 56 = 4$. ✓
- Choice A is correct.** **(4.NF.B.3)** The number line shows marked and unmarked sections. Step 1: Add the marked fractions: $\frac{4}{10} + \frac{2}{10} = \frac{6}{10}$. Step 2: Subtract from the whole: $\frac{10}{10} - \frac{6}{10} = \frac{4}{10}$ is unmarked.
- Choice D is correct.** **(4.OA.A.2)** The longer bar (30 zebras) is made of 3 equal pieces, each one giraffe-group's size. To find one piece, divide: $30 \div 3 = 10$ giraffes.
- The correct answer is A, D.** **(4.NBT.A.1)** A is true: 5 is in the hundreds place. D is true: 4 is in the tens place ($4 \times 10 = 40$). B, C, E are false. Answer: A and D. ✓
- Choice C is correct.** **(4.OA.B.4)** Factor pairs of 32: 1×32 , 2×16 , 4×8 . That gives factors 1, 2, 4, 8, 16, 32—count them up: **6** factors.
- Choice A is correct.** **(4.NF.A.1)** Picture A shows two bars with exactly the same shaded length: $\frac{1}{2}$ (1 of 2 parts) and $\frac{2}{4}$ (2 of 4 parts). They're equivalent! Picture B shows $\frac{1}{2}$ and $\frac{1}{7}$, which are clearly different sizes.
- Choice D is correct.** **(4.NBT.B.5)** Separate the place values: $8 \times (20 + 2) = 160 + 16 = 176$ cookies.
- Choice C is correct.** **(4.OA.B.4)** Start at 3 and apply "add 4" four more times: 3, 7, 11, 15, **19**. The 5th term is **19**.
- The correct answer is $\frac{3}{12}$.** **(4.NF.B.3)** Divide $\frac{9}{12}$ into three equal parts: each piece is $\frac{3}{12}$. Check: $3 + 3 + 3 = 9$ ✓.
- Choice A is correct.** **(4.MD.A.3)** Bookshelf area = $16 \times 12 = 192$ sq in.
- Choice A is correct.** **(4.MD.C.5)** Compare the fractions: $\frac{1}{2} = 0.5$, $\frac{1}{3} \approx 0.33$, $\frac{2}{5} = 0.4$, $\frac{1}{4} = 0.25$. The largest fraction is $\frac{1}{2}$.
- Choice D is correct.** **(4.NBT.A.2)** "Seventy-eight thousand" = 78,000, so the full number is 78,412. The digit 8 is in the thousands place ✓
- Choice A is correct.** **(4.NBT.A.1)** Ava drinks $\frac{1}{4}$ cup 4 times, so we calculate $4 \times \frac{1}{4} = \frac{4 \times 1}{4} = \frac{4}{4} = 1$ cup. The answer is 1 cup.
- Choice A is correct.** **(4.NF.B.3)** In the fraction bar, we have 4 shaded parts out of 6 equal parts. Each piece is a unit fraction $\frac{1}{6}$. So we have $\frac{4}{6} = \underbrace{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}}_{4 \text{ copies}}$.



Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 5 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 5 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

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