

# 7 Arizona AASA

## Grade 6 MATH PRACTICE TESTS

7  
PRINTED  
TESTS  
+  
2  
ONLINE  
TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.

Standards-Aligned *Steady Southern*  
Problem Solving for Comprehensive  
Assessment Program



7 Full-Length  
Printed Tests



Standards-Aligned  
Math Practice



Detailed Answer Keys  
and Explanations



Build Confidence.  
Achieve Success.



You've  
Got  
This!



PREPARE  
PRACTICE  
SUCCEED



PRACTICE  
WITH PURPOSE



STRENGTHEN  
MATH SKILLS



REVIEW, IMPROVE,  
AND SUCCEED

# 7 Arizona AASA Grade 6 Math Practice Tests

*Standards-Aligned Clear Desert Reasoning for Arizona's Academic Standards Assessment*



Seven complete 40-question Grade 6 practice rounds for AASA, built for clear desert reasoning with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Arizona Math Explorer!

Eight focused rounds using clear desert reasoning

This book gives you seven full Grade 6 practice tests for AASA. Each round uses desert skies, canyon layers, and bright classroom focus as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

## Your Arizona Practice Promise

Keep the work clean and visible: mark the important numbers, build a model, and check the units.

Read

Plan

Check

## How to Use This Book

A seven-session routine for clear desert reasoning

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Mark confidence.** Put a small star beside problems where your plan felt strong.
3. **Work in order.** Take one 40-question test at a time in a quiet place.
4. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.
5. **Correct actively.** Retry missed items before reading the full explanation.

**Arizona review rhythm:** Practice in short, focused blocks, then review errors before the next round warms up.



## What Is Inside?

Eight AASA tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 7	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Clear desert reasoning means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!  
For more practice  
& answers

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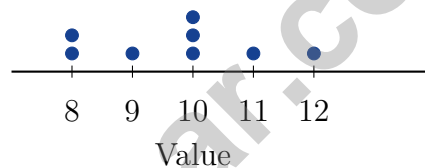
1) A teenager earns \$50 per week from a part-time job. She saves \$12 per week and spends the rest. How much does she spend per week?

- A. \$25                       C. \$38  
 B. \$32                       D. \$40

2) Find the mean of 3, 7, 8.

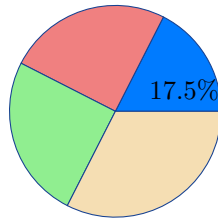
- A. 5                           C. 7  
 B. 6                           D. 18

3) A dot plot shows the values 8, 8, 9, 10, 10, 10, 11, 12. If you remove one value of 10, how does the mean change?



- A. The mean decreases                       C. The mean increases  
 B. The mean stays the same                       D. The mean becomes zero
- 4) Data on pages read in a book: 56, 58, 62, 65, 61, 59, 63. In the stem-and-leaf plot, which stem has the most leaves?
- A. Stem 5                       C. Both have equal leaves  
 B. Stem 6                       D. Stem 7





5)

A restaurant surveyed 520 customers about meal type. The circle graph shows 17.5% chose appetizers only. How many chose appetizers only?

- A. 91                                       C. 104  
 B. 85                                       D. 125

6) In Quadrant IV, how many coordinates are negative?

7) Which pair of ratios are NOT equivalent?

- A. 2 : 5 and 4 : 10                       C. 4 : 8 and 1 : 3  
 B. 3 : 7 and 6 : 14                       D. 5 : 6 and 10 : 12

8) Which value is a solution to both  $x > 3$  and  $x < 9$ ?

- A.  $x = 3$                                        C.  $x = 6$   
 B.  $x = 10$                                      D.  $x = 2$



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& answers

- 9) On a coordinate plane, point  $A$  is at  $(3, 4)$  and point  $B$  is at  $(9, 4)$ . If each unit represents 50 meters, what is the actual distance between  $A$  and  $B$  in meters?

- 10) A gym charges a membership fee for anyone under 16 years old. Which inequality represents who pays the fee?
- A.  $a > 16$                        C.  $a < 16$   
 B.  $a \leq 16$                        D.  $a \geq 16$
- 11) A circle has a radius of 6 meters. Using  $\pi \approx 3.14$ , which is the approximate area?
- A.  $18.84 \text{ m}^2$                        C.  $226.08 \text{ m}^2$   
 B.  $37.68 \text{ m}^2$                        D.  $113.04 \text{ m}^2$
- 12) A recipe calls for between 200 mL and 300 mL of water. The range of acceptable volumes is:
- A. 50 mL                               C. 200 mL  
 B. 500 mL                               D. 100 mL
- 13) A dot plot shows the number of books read by 10 students: 2, 3, 3, 4, 4, 4, 5, 5, 6, 6. What is the median number of books?
- A. 4                                       C. 5  
 B. 6                                       D. 4.5





5)

Table X

First	Second
5	15
7	21
10	30
12	37

Which row in Table X represents an incorrect entry in an otherwise consistent ratio table?

 A. Row 1: 5 : 15

 C. Row 3: 10 : 30

 B. Row 2: 7 : 21

 D. Row 4: 12 : 37

6) A bookstore sells 5 books for \$45. What is the unit rate in dollars per book?

7)

Category	Budget A	Budget B
Housing	\$900	\$700
Food	\$300	\$250
Transportation	\$200	\$200
Savings	\$100	\$100

Comparing the two budgets above, what is the difference in total monthly budgets?

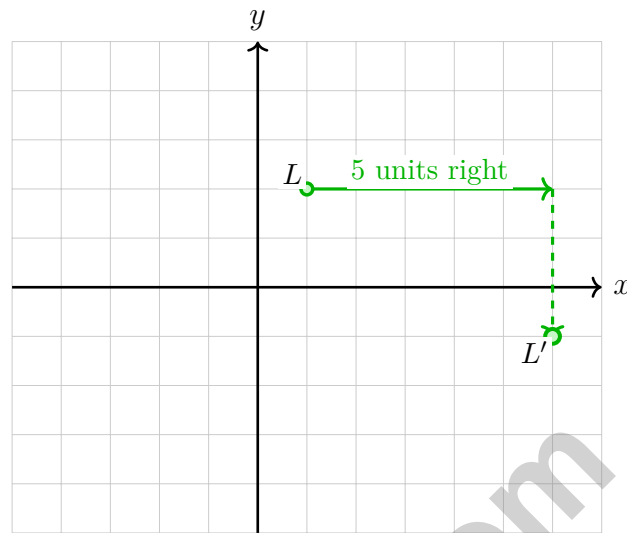
 A. \$150

 C. \$250

 B. \$200

 D. \$300


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& answers



1)

Point  $L$  at  $(1, 2)$  is translated 5 units right and 3 units down. What is the distance between  $L$  and  $L'$  along the  $x$ -direction?

- A. 5 units                       C. 2 units  
 B. 3 units                       D. 8 units

2) A student claims: "If the ratio of apples to oranges is  $7 : 3$ , then the ratio of oranges to apples must be  $3 : 7$ ."

Is this claim correct?

- A. No, the ratio cannot be reversed.       D. Yes, when the order is reversed, the parts of the ratio are reversed in the same way.  
 B. No, the order does not matter, so both must be  $7 : 3$ .  
 C. No, the ratio of oranges to apples should be  $7 : 3$  as well.





## Arizona AASA Practice Test Answer Keys

**How to use this Arizona AASA answer section with a Grade 6 student:**

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to clear desert reasoning
3. rework the problem before reading the full explanation, using this reminder:  
Keep the work clean and visible: mark the important numbers, build a model, and check the units.

**A calm Arizona correction routine turns every missed item into useful practice. Practice in short, focused blocks, then review errors before the next round warms up.**



Scan me!  
For more practice  
& answers

## Arizona Practice Test Answers and Explanations

Review the seven printed AASA tests with clear, focused, and ready for the next climb habits.

### Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(6.SP.B.4)** Spending:  $\$50 - \$12 = \$38$  per week.
- 2) **Choice B is correct.** **(6.SP.A.3)** Mean =  $\frac{3+7+8}{3} = \frac{18}{3} = 6$ .
- 3) **Choice A is correct.** **(6.SP.B.4)** Original mean:  $(8+8+9+10+10+10+11+12)/8 = 9.75$ . After removing one 10:  $(8+8+9+10+10+11+12)/7 = 9.71$ . The mean decreases slightly.
- 4) **Choice B is correct.** **(6.SP.B.4)** Stem 5: 56, 58, 59 (3 leaves); stem 6: 61, 62, 63, 65 (4 leaves). Stem 6 has more.
- 5) **Choice A is correct.** **(6.SP.B.4)** 17.5% of 520 is  $0.175 \times 520 = 91$  customers.
- 6) **The correct answer is 1.** **(6.NS.C.8)** Quadrant IV has positive  $x$ -values and negative  $y$ -values, so one coordinate is negative.
- 7) **Choice C is correct.** **(6.RP.A.1)** Simplify the first ratio in the pair: 4 : 8 becomes 1 : 2. Since 1 : 2 is not the same as 1 : 3, this pair is not equivalent.
- 8) **Choice C is correct.** **(6.EE.B.8)**  $x > 3$  and  $x < 9$  means  $x$  is between 3 and 9. Only 6 satisfies both:  $6 > 3$  and  $6 < 9$ .
- 9) **The correct answer is 300.** **(6.NS.C.8)** Distance on map:  $|9 - 3| = 6$  units. Actual distance:  $6 \times 50 = 300$  meters.
- 10) **Choice C is correct.** **(6.EE.B.8)** "Under 16" means strictly less than 16, not including 16. The inequality is  $a < 16$ .
- 11) **Choice D is correct.** **(6.NS.B.4)** Area =  $\pi r^2 \approx 3.14 \times 6^2 = 3.14 \times 36 = 113.04 \text{ m}^2$ .
- 12) **Choice D is correct.** **(6.SP.A.3)** Range = maximum - minimum =  $300 - 200 = 100$  mL.
- 13) **Choice D is correct.** **(6.SP.B.5)** With 10 data points, the median is the average of the 5th and 6th values when ordered:  $(4 + 5) \div 2 = 4.5$ .
- 14) **Choice C is correct.** **(6.NS.B.3)** Green sections = 3. Total sections = 8. Probability =  $\frac{3}{8}$ .
- 15) **Choice D is correct.** **(6.EE.B.6)** "2 less than" means subtract 2 from the book's cost.
- 16) **Choice D is correct.** **(6.EE.B.5)** Original amount minus 2.25 used equals 3.75 left. So  $x - 2.25 = 3.75$ , giving  $x = 6$  cups.
- 17) **Choice D is correct.** **(6.EE.C.9)** Each pizza costs \$9. Check: when  $p = 2$ ,  $C = 9(2) = 18$ ; when  $p = 4$ ,  $C = 9(4) = 36$ . The rule is  $C = 9p$ .
- 18) **The correct answer is Comparing rational numbers on a number line.** **(6.SP.B.4)** Statement B is correct:  $-0.6$  is to the right of  $-0.8$  on the number line, so  $-0.6 > -0.8$ . Statement D is correct:  $\frac{1}{5} = 0.2 < \frac{2}{5} = 0.4$ . Statement A is false:  $-\frac{3}{4} = -0.75 < -0.5$ , so  $-\frac{3}{4}$  is actually less than  $-\frac{1}{2}$ . Statement C is false:  $-2.1 < -1.9$  (more negative is smaller). Statement E is false:  $-1.5 < -1$ .
- 19) **Choice D is correct.** **(6.G.A.1)**  $A = \frac{1}{2} \times 7 \times 8 = 28 \text{ cm}^2$ .
- 20) **Choice D is correct.** **(6.G.A.1)** Area =  $\frac{1}{2}(25 + 15) \times 8 = \frac{1}{2}(40)(8) = 160 \text{ m}^2$ .
- 21) **Choice B is correct.** **(6.G.A.3)** For a vertical segment:  $10 - 3 = 7$  units.
- 22) **Choice A is correct.** **(6.RP.A.2)** Choice A works because 4 : 6 simplifies to 2 : 3 when both parts are divided by 2. The other pairs simplify to different ratios.
- 23) **Choice B is correct.** **(6.RP.A.3)** The ratio is 5 : 6. When action figures are 30 (multiply by 6), dolls are  $6 \times 6 = 36$ .
- 24) **Choice C is correct.** **(6.EE.C.9)** Variable expenses: 35% of \$600 =  $0.35 \times 600 = \$210$ .
- 25) **Choice D is correct.** **(6.EE.A.3)** Combine like terms:  $(7p - 3p) + (2q + 5q) = 4p + 7q$ .
- 26) **The correct answer is 4.** **(6.NS.B.3)** Solve  $-10 + x = -6$ , so  $x = 4$ .
- 27) **Choice D is correct.** **(6.NS.A.1)**  $V = 4 \times 3.5 \times 2 = 14 \times 2 = 28 \text{ in}^3$ .
- 28) **Choice C is correct.** **(6.SP.B.4)** Range = max - min =  $40 - 5 = 35$ .



## Hi, Hero!

◇ Once there was a Grade 6 student who took 7 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

### Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

**Storyteller tip:** on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Storyteller

# MASTER TODAY. SUCCEED TOMORROW.

This Grade 6 Math Practice Tests book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on comprehensive assessments.

With 7 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

Perfect for classroom use, homework, test preparation, and extra practice at home.



## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence

★ PRACTICE TODAY.  
SUCCEED TOMORROW.

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Deeper Understanding

Reinforce key concepts aligned with standards through meaningful practice.



### Test Confidence

Become familiar with test formats and improve accuracy and speed.



### Achieve Success

Build confidence and perform your best on test day.

## TOPICS COVERED

- ✓ Ratios & Rates
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



### 2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

## MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



7 FULL-LENGTH  
PRINTED TESTS



STANDARDS-  
ALIGNED PRACTICE



DETAILED ANSWER  
KEYS & EXPLANATIONS