

# 9

# Arizona AASA

GRADE

# 6

MATH

## PRACTICE TESTS

Standards-Aligned Review  
Mixed Practice & Answer Key



### 9 PRINTED TESTS

Realistic practice to build confidence and mastery



### DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



### FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



### BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



**9 PRINTED TESTS**  
**+2 ONLINE TESTS**

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

**PRACTICE TODAY.**  
**SUCCEED TOMORROW.**



PRACTICE



REVIEW



SUCCEED

# 9 Arizona AASA Grade 6 Math Practice Tests

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

$436 + 289$   $A = 24$

1 2 3 4 5 6 7 8 9

$7 \times 8$   $\frac{5}{6}$

9

complete Arizona practice rounds

Nine 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!

Nine focused rounds using clear desert reasoning

This book gives you nine 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 nine-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?

Nine AASA tests, 360 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.
Tests 7–9	Final stamina rounds 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) An account shows a balance of \$28. A withdrawal of \$15 is made. What is the new balance?

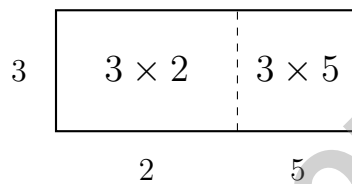
A. \$-43

C. \$13

B. \$-13

D. \$43

2) The area model below shows a rectangle divided into two parts. Which expression does it represent?



A.  $3(2 + 5)$

C.  $5(3 + 2)$

B.  $2(3 + 5)$

D.  $(3 + 2)(3 + 5)$

3) Which pair of numbers are opposites?

A. -12 and 21

C. 6 and -6

B. -9 and -9

D. 0 and -0

4) Which number has the greatest absolute value?

A. -2.3

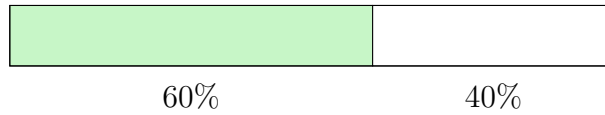
C. 3.9

B. -4.1

D. 1.8



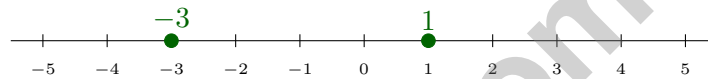




10) Total: 150 students

How many students are in the 60% section?

11)



Which two numbers are equally far from zero?

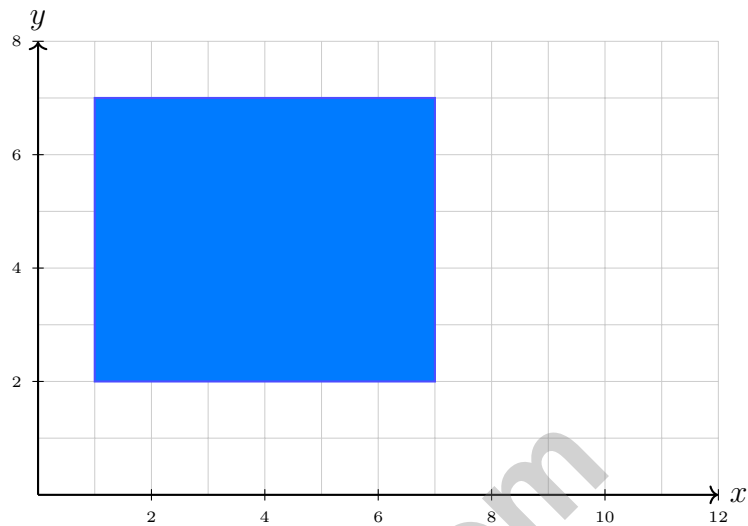
- A. -3 and 1                       C. -4 and 4  
 B. 2 and 2                         D. -2 and 2

12) What is the value of  $11^2$ ?

- A. 22                                       C. 121  
 B. 110                                     D. 132

13) Which expression is equivalent to  $3(x + 2) + 2x$ ?

- A.  $5x + 6$                                C.  $3x + 6 + 2x$   
 B.  $5x + 2$                                  D.  $6x + 2$



1)

What is the area of this rectangle?

- A. 24 square units       C. 36 square units  
 B. 30 square units       D. 42 square units

2) Compute:  $(-10) \times 3$ 

- A. 30       C. 7  
 B. -7       D. -30

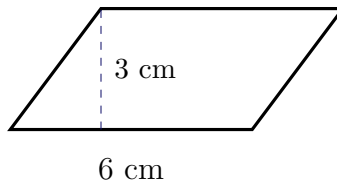
3) A point is located at  $(1, -6)$ . If you move this point to  $(1, 6)$ , which transformation occurred?

- A. Reflection across the  $y$ -axis       C. A 90-degree rotation  
 B. A translation up       D. Reflection across the  $x$ -axis



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Parallelogram



4)

What is the area of the parallelogram?

A.  $9 \text{ cm}^2$

C.  $27 \text{ cm}^2$

B.  $18 \text{ cm}^2$

D.  $36 \text{ cm}^2$

5) What is the GCF of 26 and 39?

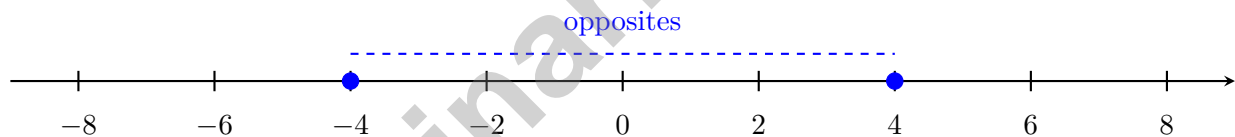
A. 13

C. 39

B. 26

D. 2

6)



Which pair of numbers are opposites?

A. 3 and  $\frac{1}{3}$

C. 6 and 12

B. -4 and 4

D. -2 and -2

7) Order these five numbers from greatest to least:

0, -1.2, 1.2, -1.5, 0.5

A. -1.2, -1.5, 0, 0.5, 1.2

C. 1.2, 0.5, -1.2, 0, -1.5

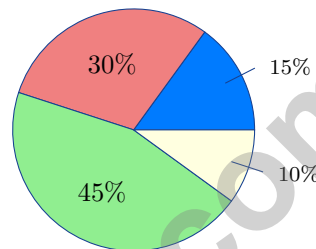
B. 0.5, 1.2, 0, -1.2, -1.5

D. 1.2, 0.5, 0, -1.2, -1.5



1) A scientist needs to convert 3 meters to both centimeters and millimeters. Which statement is correct?

- A. 3 m = 300 cm and 3 m = 3,000 mm
- B. 3 m = 30 cm and 3 m = 300 mm
- C. 3 m = 3,000 cm and 3 m = 3,000 mm
- D. 3 m = 3,000 cm and 3 m = 300,000 mm



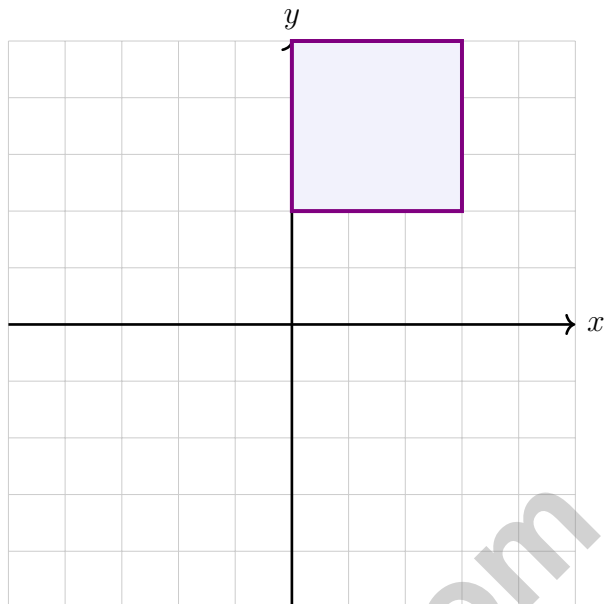
2)

A circle graph with 600 total items has sections of 15%, 30%, 45%, and 10%. Which is the second-largest section by count?

- A. The 30% section with 180 items.
- B. The 15% section with 90 items.
- C. The 10% section with 60 items.
- D. The 45% and 30% sections equally.



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3)

A rectangle has vertices at  $(0, 2)$ ,  $(3, 2)$ ,  $(3, 5)$ , and  $(0, 5)$ . After reflection over the  $y$ -axis, where is the image of the vertex  $(3, 2)$ ?

- A.  $(-3, 2)$ 
 C.  $(0, 2)$   
 B.  $(3, -2)$ 
 D.  $(3, 2)$

4) A circular garden has a radius of 7 feet. Using  $\pi \approx \frac{22}{7}$ , what is the approximate area?

- A.  $44 \text{ ft}^2$ 
 C.  $154 \text{ ft}^2$   
 B.  $88 \text{ ft}^2$ 
 D.  $308 \text{ ft}^2$

5) A coach asks: "What is the typical running speed of students on the track team?" Why is this a statistical question?

- A. Because running is an athletic activity.
  D. Because different team members run at different speeds, and data must be collected.  
 B. Because the coach is a teacher.
  C. Because the word "typical" is used.



## 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.**



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& answers

## Arizona Practice Test Answers and Explanations

Review the nine 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.EE.A.3)** Subtraction for a withdrawal:  $28 - 15 = \$13$ .
- 2) **Choice A is correct.** **(6.NS.B.4)** The rectangle has height 3 and is divided horizontally into two widths: 2 and 5. The total area is  $3 \times 2 + 3 \times 5 = 3(2 + 5)$ .
- 3) **Choice C is correct.** **(6.NS.C.5)** Opposites are numbers that are the same distance from zero but on opposite sides. 6 is 6 units right of zero, and  $-6$  is 6 units left of zero, making them opposites.
- 4) **Choice B is correct.** **(6.SP.B.4)** Absolute values:  $|-2.3| = 2.3$ ,  $|-4.1| = 4.1$ ,  $|3.9| = 3.9$ ,  $|1.8| = 1.8$ . The greatest is 4.1.
- 5) **Choice D is correct.** **(6.NS.A.1)** If  $\frac{2}{5}$  lap takes  $\frac{1}{3}$  minute, one lap takes  $\frac{1}{3} \div \frac{2}{5} = \frac{1}{3} \times \frac{5}{2} = \frac{5}{6}$  minute.
- 6) **Choice A is correct.** **(6.NS.B.2)** Verification:  $28 \times 156 = 4,368$ . Marcus's answer is exactly correct—no remainder.
- 7) **Choice A is correct.** **(6.NS.B.3)** All three are equivalent:  $0.5 = 0.50 = 0.500 = \frac{1}{2}$ . Trailing zeros do not change the value.
- 8) **Choice D is correct.** **(6.NS.B.4)** This is a GCF problem. The GCF of 16 and 24 is 8. So they can distribute into 8 bins with 2 soccer balls and 3 basketballs in each.
- 9) **Choice C is correct.** **(6.SP.B.4)** Both  $|5| = 5$  and  $|-5| = 5$ . Numbers equidistant from zero on opposite sides have the same absolute value.
- 10) **The correct answer is 90.** **(6.SP.A.1)**  $60\% \text{ of } 150 = 0.60 \times 150 = 90$  students.
- 11) **Choice D is correct.** **(6.NS.C.7)** Numbers are equally far from zero if their absolute values are equal.  $|-2| = |2| = 2$ . The shown points  $-3$  and  $1$  are not equally distant.
- 12) **Choice C is correct.** **(6.EE.A.1)**  $11^2 = 11 \times 11 = 121$ . This is a two-digit squared number.
- 13) **Choice A is correct.** **(6.EE.A.3)** Distribute then combine:  $3x + 6 + 2x = 5x + 6$ .
- 14) **Choice D is correct.** **(6.EE.B.8)** "At least 48" means 48 or more, which is written as  $h \geq 48$ .
- 15) **Choice C is correct.** **(6.EE.B.8)**  $x \geq 2$  includes 2 (closed circle) and all numbers greater than 2 (arrow points right).
- 16) **Choice B is correct.** **(6.EE.C.9)** Earnings equal hourly rate multiplied by hours worked:  $E = 15h$ .
- 17) **Choice D is correct.** **(6.NS.A.1)**  $28 = 3.5 \times 2 \times h = 7 \times h$ , so  $h = 4$  ft.
- 18) **The correct answer is Plan X shows a proportional relationship, and it is represented by  $e = 20h$ .** **(6.EE.C.9)** Statement A is correct: Plan X has equation  $e = 20h$ , so it is proportional. Statement C matches the equation for Plan X. Plan Y has equation  $e = 100 + 10h$ , so it is not proportional and its graph does not pass through the origin. After 10 hours, both plans pay \$200, so D is false.
- 19) **Choice C is correct.** **(6.SP.A.3)** Mean =  $\frac{85 + 90 + 88 + 92 + 85}{5} = \frac{440}{5} = 88$ .
- 20) **Choice B is correct.** **(6.SP.A.3)** MAD (mean absolute deviation) is calculated by finding the distance from each point to the mean, then averaging these distances.
- 21) **The correct answer is 32.** **(6.RP.A.3)** Unit cost:  $8 \div \frac{1}{4} = 8 \times 4 = 32$  dollars per gallon.
- 22) **Choice D is correct.** **(6.SP.B.4)**  $Q_1$  is the left edge of the box.
- 23) **Choice B is correct.** **(6.NS.B.3)** Using complementary events:  $P(\text{not rain}) = 1 - P(\text{rain}) = 1 - \frac{3}{5} = \frac{2}{5}$ .
- 24) **Choice D is correct.** **(6.NS.C.8)** Points on an axis must have at least one coordinate equal to zero. The point  $(2, -4)$  has both non-zero coordinates, so it is not on an axis.
- 25) **Choice A is correct.** **(6.NS.C.8)** Distance on grid:  $|10 - 2| = 8$  units. Actual distance:  $8 \times 50 = 400$  meters.
- 26) **The correct answer is 12.** **(6.EE.C.9)** Number of weeks:  $\$180 \div \$15 \text{ per week} = 12$  weeks.
- 27) **Choice D is correct.** **(6.EE.B.5)** Divide both sides by 0.5:  $x = 7 \div 0.5 = 14$ .
- 28) **The correct answer is 15.** **(6.RP.A.3)** Use the scale:  $2.5 \text{ inches} \times 6 \text{ feet/inch} = 15 \text{ feet}$ .



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## Hi, Math Athlete!

◇ 9 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

### Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

**Trainer tip:** on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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 Trainer

# PRACTICE MORE. ACHIEVE MORE.

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 any test.

With 9 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 math concepts aligned with standards.



### Test Confidence

Get familiar with test formats and improve accuracy.



### 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.



9 PRINTED  
PRACTICE TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS