

# 4 Arizona AASA

GRADE  
**6**  
MATH

## PRACTICE TESTS

Standards Aligned Problem Solving  
For Comprehensive Assessment Programs

**4**

**PRINTED  
TESTS**



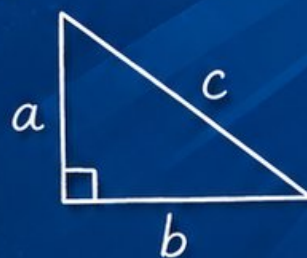
**2**

**ONLINE  
TESTS**



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



**USE THESE TWO  
ADDITIONAL ONLINE  
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER  
THE PRINTED TESTS  
IN THIS BOOK.**

# 4 Arizona AASA Grade 6 Math Practice Tests

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



Four 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!

Four focused rounds using clear desert reasoning

This book gives you four 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 four-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?

Four AASA tests, 160 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
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.

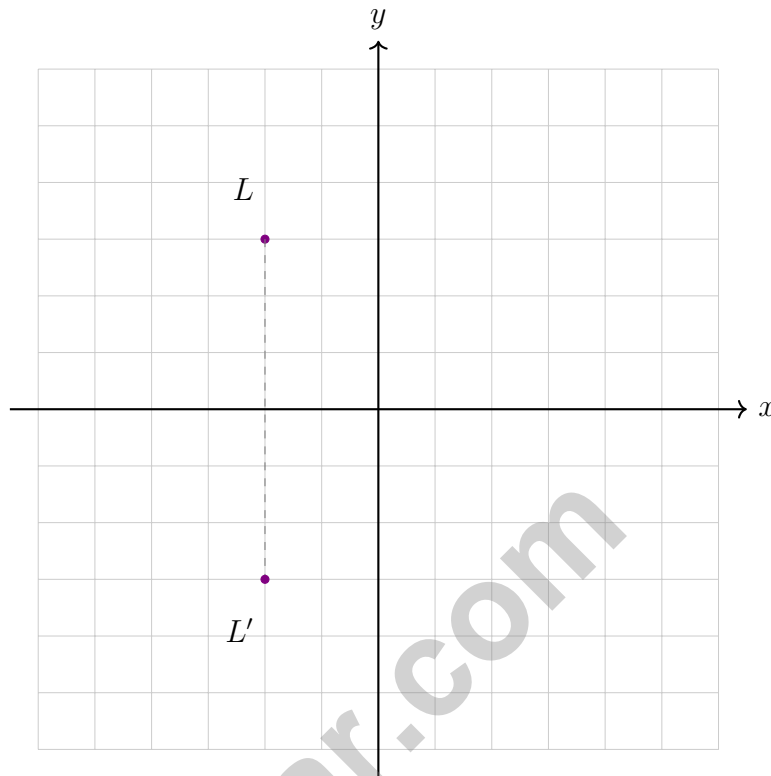


Scan me!  
For more practice  
& answers

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4)

Points  $L$  and  $L'$  are shown. If  $L$  is reflected across the  $x$ -axis to create  $L'$ , what are the coordinates of  $L$ ?

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

5) Which statement is false?

- A.  $-9 < -5$                        C.  $-0.5 < 0.5$   
 B.  $-2.5 > -3.5$                        D.  $-7 > -3$



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& answers

- 6) A  $10 \times 10$  grid has 52 shaded squares. What percent of the grid is shaded?

- 7) A company sells 480 products in one month. If 25% of the sales were online, how many products were sold online?

- 8) What is the distance between the points  $(-3, 4)$  and  $(-3, -2)$  on the coordinate plane?

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

- 9) A wooden block has dimensions  $2\frac{1}{4}$  in by 2 in by 3 in. What is its volume?

- A.  $7.25 \text{ in}^3$                        C.  $14.5 \text{ in}^3$   
 B.  $13.5 \text{ in}^3$                        D.  $18.5 \text{ in}^3$

- 10) Two vertices of a rectangle are at  $(3, 2)$  and  $(3, 9)$ . These are adjacent vertices. If the width is 5 units, where is a third vertex?

- A.  $(8, 2)$                        C.  $(5, 2)$   
 B.  $(8, 9)$                        D.  $(3, 7)$



1)



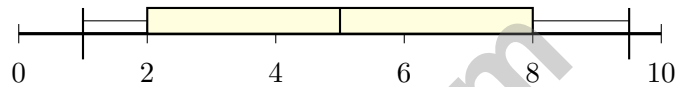
The dots show blue and red counters. What is the ratio of blue to red in fraction form?

A.  $\frac{6}{9}$

B.  $\frac{3}{9}$

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

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

2) Using the box plot, find the value of the third quartile ( $Q_3$ ):

A. 2

B. 5

C. 8

D. 9.5

3) Which summary statistic is most resistant to outliers?

A. Mean

B. Median

C. Range

D. Standard deviation

4) A standard six-sided die is rolled. What is the probability of rolling a number less than or equal to 4?

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

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

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

D.  $\frac{5}{6}$



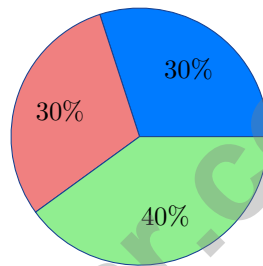
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& answers

5) A researcher gathers data on the number of hours 10 students study per week:

Stem	Leaf
1	2, 5, 8
2	1, 3, 4, 6, 9
3	0, 2

What is the mean (average) number of hours studied?

- A. 22 hours                       C. 24 hours  
 B. 25 hours                       D. 23 hours



6)

A circle graph shows survey results from 250 people. Which section represents the most people?

- A. The 40% section with 100 people.     C. The 30% section with 50 people.  
 B. The 30% section with 75 people.     D. Both 30% sections equally.

7) A dot plot shows the number of pets owned by 10 families: 0, 1, 1, 2, 2, 2, 3, 3, 4, 5.  
Which measure of center is MOST resistant to the outlier value of 5 pets?

- A. Mean                               C. Mode  
 B. Median                             D. Range

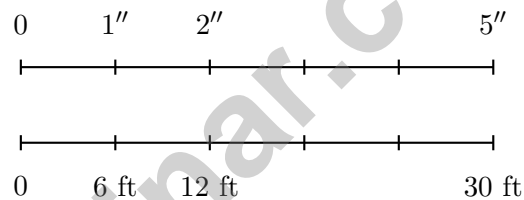


1) A music store sells guitars and drums in a 6 : 5 ratio. The table shows the inventory:

Guitars	Drums
6	5
12	10
18	?

- A. 14                       C. 16  
 B. 15                       D. 18

2) A double number line shows the relationship between drawing measurements and actual distances.



According to the double number line, 3 inches on the drawing represents how many feet?

- A. 12 feet                       C. 18 feet  
 B. 15 feet                       D. 24 feet

3) A car rental company charges \$25 per day. What is the cost for 4 days?



4) A school orders 4,725 pencils to distribute equally among 15 classrooms. How many pencils does each classroom receive?

A. 315

C. 325

B. 305

D. 335

5) A company is packing gift sets. They have 32 mugs and 48 candles. Each gift set will have the same number of mugs and candles with nothing left over. What is the maximum number of gift sets?

A. 8 sets

C. 16 sets

B. 12 sets

D. 32 sets

6) What is the GCF of 21 and 28?

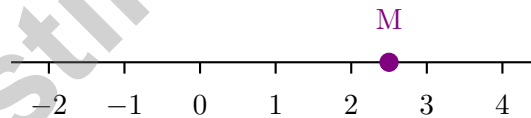
A. 2

C. 7

B. 4

D. 14

7) The number line below shows tick marks at each integer. Point M is marked on the line. What is the coordinate of point M?



A. 2.5

C. 2

B. 2.25

D. 3



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& answers

## 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!  
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& answers

## Arizona Practice Test Answers and Explanations

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

### Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(6.NS.B.4)** From  $A = \pi r^2$ , we get  $78.5 \approx 3.14 \times r^2$ , so  $r^2 \approx 25$ , thus  $r = 5$  cm.
- 2) **Choice C is correct.** **(6.SP.B.4)** Computing:  $|-11| = 11$ ,  $|-7| = 7$ ,  $|4| = 4$ ,  $|-9| = 9$ . The smallest is 4.
- 3) **Choice A is correct.** **(6.SP.B.4)**  $-\frac{5}{4} = -1.25$  is the least value, so it is farthest to the left (most negative).
- 4) **Choice A is correct.** **(6.NS.C.8)** From the graph, point  $L$  (upper point) is located at  $(-2, 3)$ . Its reflection  $L'$  across the  $x$ -axis is at  $(-2, -3)$ .
- 5) **Choice D is correct.** **(6.NS.C.7)** A is true ( $-9 < -5$ ). B is true ( $-2.5 > -3.5$ ). C is true ( $-0.5 < 0.5$ ). D is false:  $-7 < -3$ , not greater.
- 6) **The correct answer is 52%.** **(6.RP.A.3)** A  $10 \times 10$  grid has 100 squares total. If 52 are shaded, the percent is  $\frac{52}{100} = 52\%$ .
- 7) **The correct answer is 120.** **(6.SP.A.1)** 25% of 480 =  $0.25 \times 480 = 120$  products were sold online.
- 8) **Choice C is correct.** **(6.NS.C.8)** The  $x$ -coordinates are the same, so subtract the  $y$ -coordinates:  $|4 - (-2)| = |4 + 2| = 6$  units.
- 9) **Choice B is correct.** **(6.NS.A.1)**  $V = 2.25 \times 2 \times 3 = 4.5 \times 3 = 13.5 \text{ in}^3$ .
- 10) **Choice A is correct.** **(6.G.A.3)** One side has length  $9 - 2 = 7$  units. If the width is 5, the adjacent side extends 5 units horizontally from  $(3, 2)$  to  $(8, 2)$ .
- 11) **Choice A is correct.** **(6.G.A.1)** Base:  $9 - 1 = 8$  units. Height:  $9 - 1 = 8$  units. Area =  $\frac{1}{2} \times 8 \times 8 = 32$  square units.
- 12) **Choice C is correct.** **(6.G.A.4)** A net with a central rectangle surrounded by 4 rectangles and 1 more makes 6 rectangles total, corresponding to the 6 faces of a rectangular prism.
- 13) **Choice A is correct.** **(6.NS.C.8)** Translate:  $(7, 3) \rightarrow (7 - 2, 3 - 4) = (5, -1)$ .
- 14) **Choice A is correct.** **(6.NS.B.3)** Sharing 18.4 across four equal groups yields 4.6. Multiply back cheerfully:  $4 \times 4.6 = 18.4$  feels just right.
- 15) **Choice A is correct.** **(6.NS.B.3)** Four negatives (even number) multiply to a positive:  $(-1) \times (-1) \times (-1) \times (-1) = 1$ . Then  $1 \times 8 = 8$ .
- 16) **Choice D is correct.** **(6.EE.A.1)** An exponent shows how many times to multiply the base by itself.  $2^4$  means 2 multiplied 4 times, which is  $2 \times 2 \times 2 \times 2 = 16$ .
- 17) **Choice B is correct.** **(6.EE.A.3)** Substitute:  $C = 3.14 \times 2.5 = 7.85$  units.
- 18) **The correct answer is The constant of proportionality is 4, and the cost per unit is \$4.** **(6.RP.A.3)** A is correct because  $k = \frac{8}{2} = 4$ . B is correct because the cost per unit is \$4. The equation is  $y = 4x$ , so Choice C is false; Choice D is false because the graph passes through  $(0, 0)$ ; Choice E gives the wrong unit rate.
- 19) **Choice C is correct.** **(6.EE.B.8)** The open circle at 5 indicates 5 is not included. The arrow points right (toward greater values), so  $x > 5$ .
- 20) **Choice C is correct.** **(6.SP.B.4)** After taxes:  $\$2000 \times (1 - 0.15) = \$2000 \times 0.85 = \$1700$ . Savings: 20% of  $\$1700 = 0.20 \times 1700 = \$340$ .
- 21) **Choice B is correct.** **(6.EE.C.9)** Using  $d = 60t$  with  $t = 2.5$ :  $d = 60 \times 2.5 = 150$  miles.
- 22) **The correct answer is 9.** **(6.RP.A.3)** Ratio 5 : 3 with 15 red marbles: each part is  $15 \div 5 = 3$  marbles. Blue marbles:  $3 \times 3 = 9$ .
- 23) **Choice A is correct.** **(6.EE.C.9)** Actual spending:  $\$8000 + \$1200 = \$9200$ . Percent over:  $\$1200 \div \$8000 = 0.15 = 15\%$ .
- 24) **Choice A is correct.** **(6.RP.A.3)** Use the scale: 2 cm  $\times$  5 km/cm = 10 km.
- 25) **Choice D is correct.** **(6.NS.B.2)** Using partial quotients:  $200 + 20 + 8 = 228$ . Verify:  $24 \times 228 = 5,472$ .
- 26) **Choice A is correct.** **(6.NS.B.4)** Prime factors:  $6 = 2 \times 3$  and  $9 = 3^2$ . The LCM uses each prime the greatest number of times:  $2 \times 3^2 = 18$ .



## Ahoy, Math Sailor!

◇ You sailed through 4 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

### Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

**Captain's tip:** on test day, sail steady. Trust the map you built through 4 practice tests. You will reach safe harbor!

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 Captain

# PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

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

## THIS BOOK INCLUDES:

**4** Full-Length Printed Tests

**2** Online Practice Tests

 Detailed Answer Explanations

 **MORE PRACTICE.  
GREATER RESULTS.**

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

## WHAT YOU'LL 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 with clear explanations and meaningful practice.



### Test Confidence

Familiarize with test formats and improve accuracy and speed.



### Achieve Success

Build confidence and perform your best on test day.

## TOPICS COVERED

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



### 2 ONLINE TESTS

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



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