

8 Arizona AASA

GRADE 6

MATH

PRACTICE TESTS

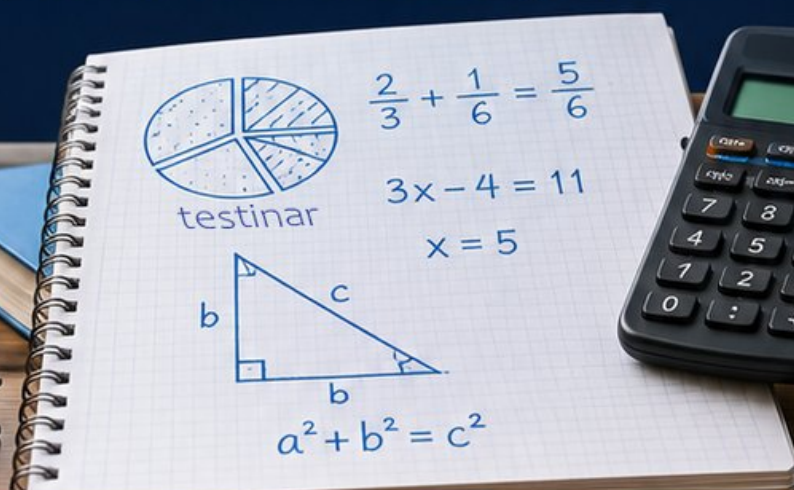
8
PRINTED
TESTS

+

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



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 Arizona AASA Grade 6 Math Practice Tests

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



Eight 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 eight 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 eight-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.
Tests 7–8	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

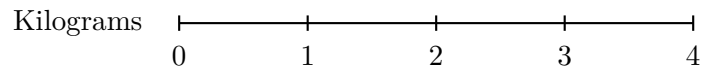
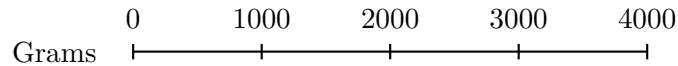
The tests are mixed on purpose. Clear desert reasoning means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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4)

Using the double number line, how many grams are in 2.5 kilograms?

- A. 1,000 grams C. 2,500 grams
 B. 2,000 grams D. 3,000 grams
- 5) A distribution center needs to split 4,536 boxes among 19 warehouses equally. How many boxes per warehouse (round up if necessary)?
- A. 238 C. 240
 B. 241 D. 239
- 6) A point lies on the boundary between Quadrants III and IV. What must be true about this point?
- A. The y -coordinate is zero C. Both coordinates are zero
 B. The x -coordinate is zero D. The coordinates are equal
- 7) What is the distance between $(-4, 0)$ and $(-4, 9)$?
- A. 8 units C. 10 units
 B. 9 units D. 11 units



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8) A stock portfolio shows: Investment A gained \$75, Investment B lost \$120, Investment C gained \$45. What is the total gain or loss?

- A. \$240 loss C. \$240 gain
 B. \$0 (break-even) D. \$120 loss

9) Which step would you use first to solve $x + 5 = 13$?

- A. Subtract 5 from both sides C. Divide both sides by 5
 B. Add 5 to both sides D. Multiply both sides by 5

10) A score must be greater than 85 to earn an A. What is the least whole-number score?

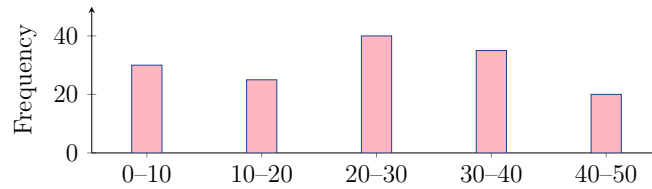
11) A square has vertices at $(0, 0)$, $(6, 0)$, $(6, 6)$, and $(0, 6)$. What is its perimeter?

12) A company pays employees \$18 per hour. An employee works 25 hours in a week. Using the equation $w = 18h$, where w is weekly pay and h is hours worked, what does the number 18 represent?

- A. The number of hours worked C. The total weekly pay
 B. The number of employees D. The hourly pay rate



- 1) A histogram shows that the most common range is 20–30 with frequency 40. If the total number of data points is 150, what percentage of data falls in the 20–30 range?



- A. 20% C. 40%
- B. 26.7% D. 33.3%
- 2) A number from 1 to 20 is selected at random. What is the probability that the number is even?

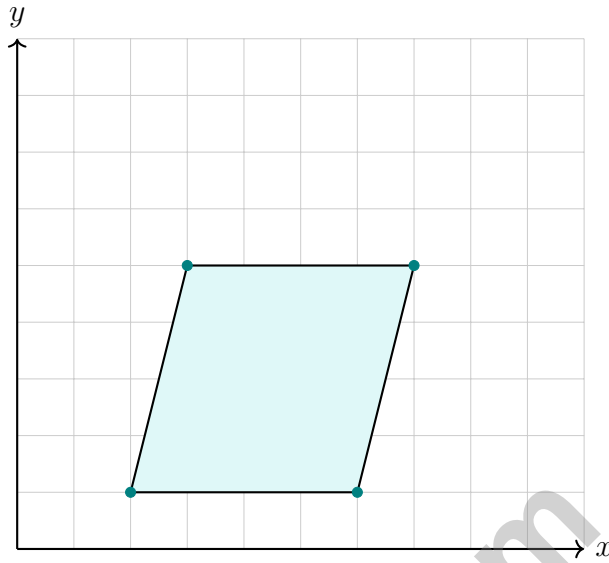
- A. $\frac{1}{20}$ C. $\frac{9}{20}$
- B. $\frac{10}{20}$ D. $\frac{1}{2}$

- 3) A car rental requires drivers to be at least 18 years old. Which inequality represents this requirement?

- A. $d > 18$ C. $d \leq 18$
- B. $d < 18$ D. $d \geq 18$



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4)

What is the name of this quadrilateral?

- A. Parallelogram
- B. Rectangle
- C. Quadrilateral
- D. Trapezoid

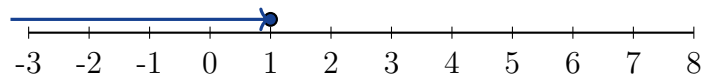
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1) Using the temperature data from Question 5, what is the median temperature?

- A. 45°F C. 48°F
 B. 50°F D. 46°F

2) What inequality is shown on this number line?



- A. $x \leq 1$ C. $x > 1$
 B. $x < 1$ D. $x \geq 1$

3) In the relationship between hours worked and earnings, which is always the independent variable?

- A. Earnings C. The hourly rate
 B. Hours worked D. The day of the week

4) Find the GCF of 42 and 28.

5) Which point would be closest to the origin?

- A. $(-5, 7)$ C. $(-8, 6)$
 B. $(3, -2)$ D. $(0, -4)$

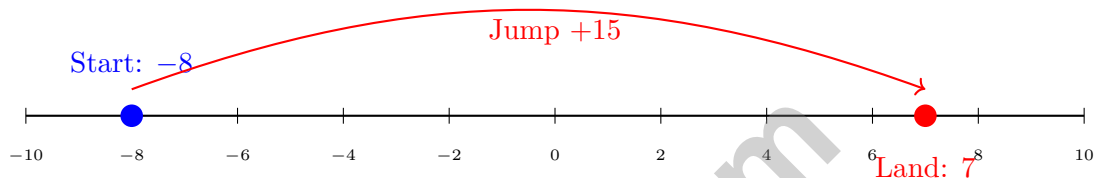


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6) A park ranger uses a map where $(5, 3)$ marks the trail start and $(5, 9)$ marks the trail end. The scale is 1 unit = 150 meters. What is the length of the trail in meters?

- A. 600 m C. 900 m
 B. 750 m D. 1050 m

7) A number line shows a starting position at -8 . A jump of $+15$ units moves the position forward. Where does it land?



- A. -23 C. 23
 B. 15 D. 7

8) Solve for x : $\frac{x}{3} = 7$

- A. $x = 4$ C. $x = 21$
 B. $x = 10$ D. $x = 2.33$

9) What is the base of a triangle with area 88 ft^2 and height 11 feet?

- A. 8 ft C. 22 ft
 B. 16 ft D. 44 ft

10) A trapezoid has bases of 10 cm and 6 cm. If the area is 32 cm^2 , what is the height?

- A. 2 cm C. 4 cm
 B. 3.2 cm D. 8 cm



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

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(6.SP.A.3)** Original sum: $3 \times 12 = 36$. Adding 12 gives: $36 + 12 = 48$. New mean: $\frac{48}{4} = 12$.
- 2) **Choice C is correct.** **(6.G.A.1)** Area = $6 \times 1.5 = 9$ yd².
- 3) **Choice D is correct.** **(6.EE.B.8)** The symbol \geq includes the boundary value, so we use a closed (filled) circle to show that -3 is part of the solution set.
- 4) **Choice C is correct.** **(6.RP.A.3)** Reading the double number line: 2.5 kg is halfway between 2 kg (2000 g) and 3 kg (3000 g), so it equals 2500 g.
- 5) **Choice D is correct.** **(6.NS.B.2)** $4,536 \div 19 = 238$ remainder 14. Rounding up gives 239 boxes per warehouse.
- 6) **Choice A is correct.** **(6.NS.C.8)** The boundary between Quadrants III and IV is the negative x -axis, where all points have $y = 0$ and $x < 0$.
- 7) **Choice B is correct.** **(6.NS.C.8)** Same x -coordinate (-4) : $|9 - 0| = 9$ units.
- 8) **Choice B is correct.** **(6.EE.A.3)** Total: $75 + (-120) + 45 = 75 - 120 + 45 = 120 - 120 = \0 (no gain or loss overall).
- 9) **Choice A is correct.** **(6.EE.B.5)** To undo addition, subtract. This isolates x on the left side.
- 10) **The correct answer is 86.** **(6.EE.B.8)** The least whole number greater than 85 is 86.
- 11) **The correct answer is 24.** **(6.G.A.3)** Side length = 6 units. Perimeter = $4 \times 6 = 24$ units.
- 12) **Choice D is correct.** **(6.EE.C.9)** In the equation $w = 18h$, the coefficient 18 is the constant rate (hourly pay rate in dollars per hour).
- 13) **Choice D is correct.** **(6.G.A.1)** $A = \frac{1}{2} \times 30 \times 4 = 60$ m².
- 14) **Choice D is correct.** **(6.G.A.4)** $SA = 2LW + 2LH + 2WH = 2(5)(5) + 2(5)(15) + 2(5)(15) = 50 + 150 + 150 = 350$ cm².
- 15) **The correct answer is 24.** **(6.G.A.1)** Width: $8 - 2 = 6$ units. Height: $6 - 2 = 4$ units. Area = $6 \times 4 = 24$ square units.
- 16) **Choice B is correct.** **(6.SP.A.2)** Although most sixth graders are similar in age, there is still variability. Asking for the "typical" age requires collecting and analyzing data from many students, making it statistical.
- 17) **Choice A is correct.** **(6.SP.A.2)** MAD measures the average distance of each data point from the mean. It describes how spread out the data is around the center.
- 18) **Choice A is correct.** **(6.SP.B.4)** Count the dots stacked above each value. The tallest stack is at 6 hours with 5 dots, which is more than at any other value, so 6 hours is the mode.
- 19) **Choice D is correct.** **(6.SP.B.4)** Stem 9 has 5 leaves and stem 10 has 3 leaves, totaling $5 + 3 = 8$ days.
- 20) **Choice A is correct.** **(6.SP.B.4)** 25% of 180 is $0.25 \times 180 = 45$ customers.
- 21) **Choice B is correct.** **(6.RP.A.3)** A histogram groups continuous numerical data into intervals and shows frequency, making it ideal for displaying distribution. Bar graphs show categorical counts; pictographs use symbols; circle graphs show parts of a whole.
- 22) **The correct answer is 35% of \$40 = $0.35 \times 40 = \$14$ (discount); Sale price is $\$40 - \$14 = \$26$. Choices A and B are correct..** **(6.SP.A.1)** Discount: 35% of $\$40 = 0.35 \times 40 = \14 , so choice A is correct. Sale price: $\$40 - \$14 = \$26$, so choice B is correct. Choice C ($\$28$) and choice D ($\25) are incorrect discount/price combinations. Choice E ($\$35$) confuses the percent with the original price and is incorrect.
- 23) **Choice C is correct.** **(6.RP.A.1)** The ratio $7 : 5$ means the total is $7 + 5 = 12$ parts. A valid total must be divisible by 12. Only 24 is divisible by 12 (since $24 \div 12 = 2$). So the total could be 24 items: 14 hot dogs and 10 hamburgers.
- 24) **Choice C is correct.** **(6.RP.A.2)** Every valid pair must simplify to $3 : 4$. The pairs $6 : 8$, $9 : 12$, and $15 : 20$ all simplify to $3 : 4$, but $12 : 15$ simplifies to $4 : 5$, so it does not match.
- 25) **Choice C is correct.** **(6.SP.B.4)** Total fixed expenses: $\$180 + \$60 + \$60 = \300 . Percentage of income: $\frac{\$300}{\$600} = \frac{1}{2} = 50\%$.



Hi, Math Pilot!

◇ 8 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

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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

8
PRINTED
TESTS

+

2
ONLINE
TESTS

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.



Understand Key Concepts

Reinforce important math ideas 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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ 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.



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS