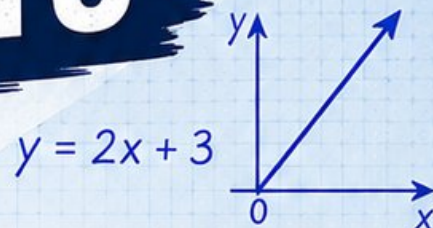


3 Arizona AASA

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

36% of 150 = ?



3 | PRINTED
TESTS



2 | ONLINE
TESTS



Build
Confidence



Master Key
Math Skills



Answer Explanations
for Every Question



Test-Taking
Strategies That Work

USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.

3 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

3×10 $\frac{3}{4}$

complete Arizona practice rounds

Three 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!

Three focused rounds using clear desert reasoning

This book gives you three 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 three-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?

Three AASA tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
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

Table of Contents

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1) A student made an error. She computed $5.2 \times 3 = 156$. What should the correct answer be?

A. 15.6

C. 2.17

B. 1.56

D. 156.0

2) A baker has $2\frac{1}{4}$ pounds of flour. Each loaf of bread requires $\frac{3}{4}$ pound of flour. How many loaves can the baker make?

A. $1\frac{2}{3}$

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

B. 3

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

3) A recipe calls for flour and sugar in a 5 : 2 ratio. If the recipe uses 10 cups of flour, how many cups of sugar are needed?

4) The perimeter of a square is $P = 4s$. Find P when $s = 5$.

A. 9

C. 25

B. 20

D. 40

5) A student needs to score more than 80% to pass. Which inequality represents passing scores?

A. $s \leq 80$

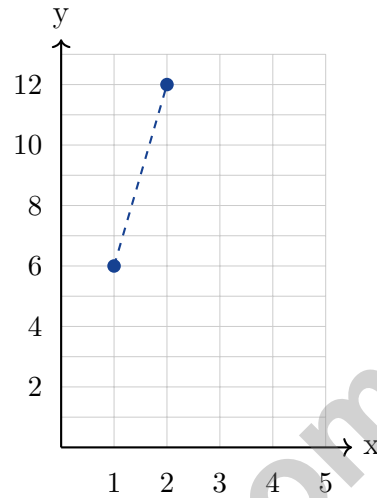
C. $s > 80$

B. $s < 80$

D. $s \geq 80$



- 6) A graph shows a proportional relationship with the line $y = 6x$. Which of the following points lies on this line?



- A. (1, 6) C. (3, 12)
- B. (2, 8) D. (4, 18)
- 7) Convert $\frac{3}{4}$ to a percent.
- A. 34% C. 75%
- B. 0.75% D. 340%
- 8) A test score improves from 70 to 84. What is the percent increase?
- A. 15% C. 25%
- B. 18% D. 20%



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1) What is $\frac{30}{-5}$?

A. 6

B. -6

C. 25

D. -25

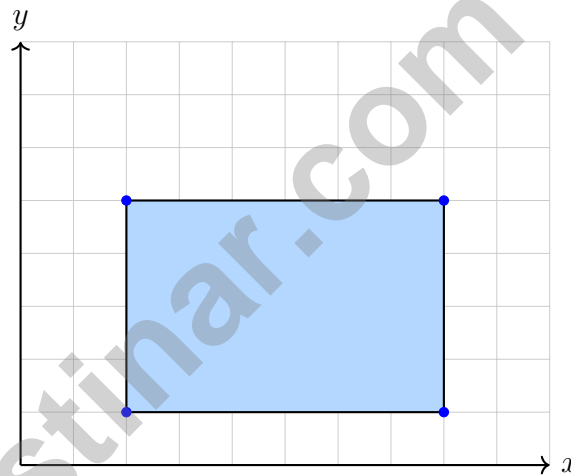
2) A pizza has a diameter of 12 inches. What is its approximate area using $\pi \approx 3.14$?

A. 37.68 in²

B. 75.36 in²

C. 113.04 in²

D. 452.16 in²



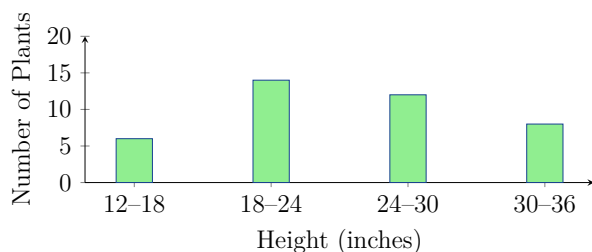
3)

What is the area of the rectangle shown above?



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- 4) Which question would produce the MOST variability in answers?
- A. What time does lunch start at your school?
 B. How many legs do dogs have?
 C. What year was the Statue of Liberty built?
 D. How many siblings do you have?
- 5) Which characteristic indicates a distribution is skewed LEFT?
- A. Mean > Median
 B. Median > Mean
 C. Mean = Median
 D. Mode > Mean
- 6) What is the median of the data set: 3, 7, 9, 12, 15?
- A. 9
 B. 7
 C. 12
 D. 10.2
- 7) Two classes took the same test. Class A's scores have a mean of 80 and MAD of 4. Class B's scores have a mean of 80 and MAD of 7. What does this tell you?
- A. Class A performed better overall.
 B. Class B performed better overall.
 C. Class A's scores are more consistent.
 D. Class B's scores are more consistent.
- 8) The histogram below shows the height (in inches) of tomato plants after 4 weeks. How many plants are between 18 and 24 inches tall?



- A. 6 plants
 B. 20 plants
 C. 12 plants
 D. 14 plants



1) What is the value of $7^2 - 13$?

A. 36

C. 49

B. 35

D. 62

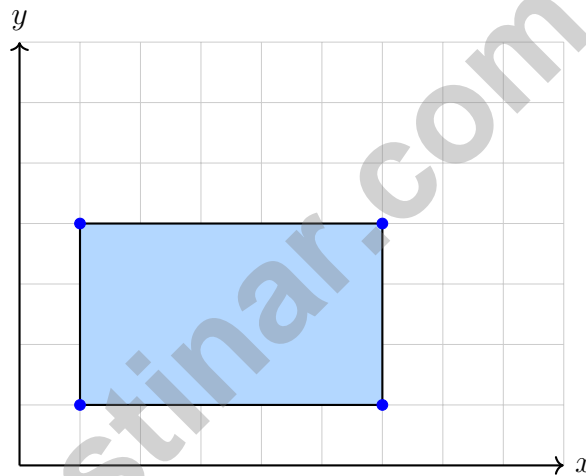
2) A rectangular prism has length 4 ft, width 3 ft, and height $2\frac{1}{2}$ ft. What is its volume?

A. 9.5 ft^3

C. 30 ft^3

B. 24 ft^3

D. 60 ft^3



3)

What is the area of this rectangle?

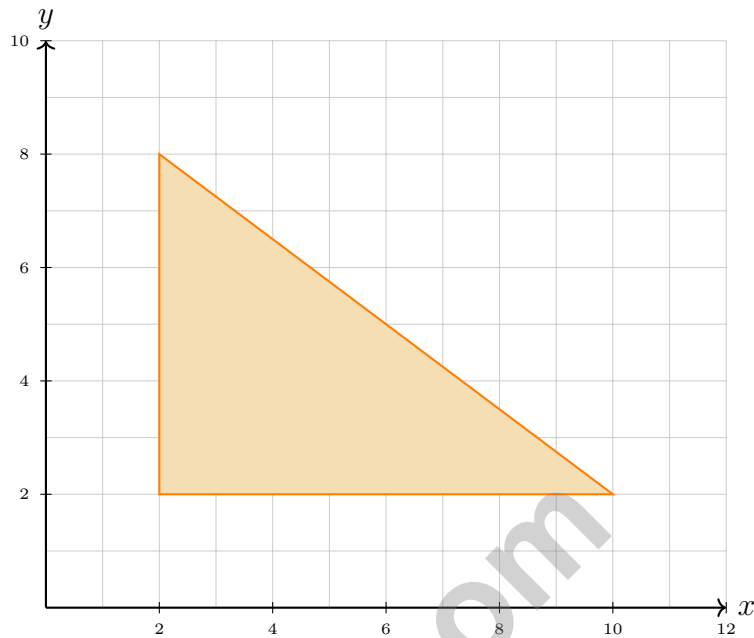
A. 10 square units

C. 18 square units

B. 13 square units

D. 15 square units





4)

What is the area of the right triangle with vertices at $(2, 2)$, $(10, 2)$, and $(2, 8)$?

 A. 18 square units C. 24 square units B. 20 square units D. 28 square units

5) A rectangular prism has surface area 280 cm^2 , length 10 cm , and width 6 cm . Find the height.

 A. 4 cm C. 6 cm B. 5 cm D. 8 cm

6) Which decimal is equivalent to $-\frac{7}{10}$? Write your answer as a decimal.



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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 three 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.3)** $52 \times 3 = 156$. Since 5.2 has one decimal place, the product is 15.6.
- 2) **Choice B is correct.** **(6.NS.A.1)** Dividend $2\frac{1}{4}$ becomes $\frac{9}{4}$. Flip $\frac{3}{4}$ to $\frac{4}{3}$, multiply: $\frac{9}{4} \times \frac{4}{3}$, and the fractions cancel cleanly to leave 3 whole loaves—no leftover dough for another full loaf.
- 3) **The correct answer is 4.** **(6.RP.A.2)** Flour is the 5-part amount. Since $10 \div 5 = 2$, each part is 2 cups, and sugar is 2 parts: $2 \times 2 = 4$ cups.
- 4) **Choice B is correct.** **(6.EE.A.3)** Substitute $s = 5$: $P = 4(5) = 20$ units.
- 5) **Choice C is correct.** **(6.EE.B.8)** “More than 80%” means strictly greater than 80, so the inequality is $s > 80$ (not \geq).
- 6) **Choice A is correct.** **(6.RP.A.3)** For the equation $y = 6x$: when $x = 1$, $y = 6(1) = 6$, so $(1, 6)$ is on the line. Check other options: $(2, 8)$ gives $8 \neq 12$; $(3, 12)$ gives $12 \neq 18$; $(4, 18)$ gives $18 \neq 24$. Only A satisfies the equation.
- 7) **Choice C is correct.** **(6.RP.A.3)** To convert a fraction to a percent, write it as a fraction with denominator 100. $\frac{3}{4} = \frac{75}{100} = 75\%$.
- 8) **Choice D is correct.** **(6.SP.A.1)** Increase is $84 - 70 = 14$. Percent increase is $\frac{14}{70} = 0.20 = 20\%$.
- 9) **Choice B is correct.** **(6.RP.A.3)** Store X: $15 \div 3 = 5$ per item. Store Y: $20 \div 5 = 4$ per item. Store Y is cheaper.
- 10) **The correct answer is 60 items per box.** **(6.RP.A.2)** Divide total items by number of boxes: $480 \div 8 = 60$ items per box.
- 11) **Choice B is correct.** **(6.RP.A.3)** The pattern shows 12 inches = 1 foot. For 60 inches: $60 \div 12 = 5$ feet.
- 12) **Choice B is correct.** **(6.SP.B.4)** Amy: $\$8.00 \times 8 = \64 . Ben: $\$7.00 \times 12 = \84 . So Ben earns more.
- 13) **Choice C is correct.** **(6.EE.C.9)** For $c = 12j$, the line passes through $(0, 0)$, $(5, 60)$, $(10, 120)$, and $(15, 180)$. The constant rate is \$12 per jersey, so this represents a proportional relationship.
- 14) **Choice C is correct.** **(6.EE.C.9)** One year has 12 months: $\$50 \times 12 = \600 .
- 15) **Choice D is correct.** **(6.RP.A.3)** Actual side: $2 \times 10 = 20$ feet. Area: $20 \times 20 = 400$ sq ft.
- 16) **Choice A is correct.** **(6.NS.B.2)** $7,600 \div 25 = 304$. Verify: $25 \times 304 = 7,600$.
- 17) **The correct answer is 30 mph.** **(6.RP.A.2)** $45 \div \frac{3}{2} = 45 \times \frac{2}{3} = 30$ miles per hour.
- 18) **Choice C is correct.** **(6.NS.B.4)** Factors of 22: 1, 2, 11, 22. Factors of 33: 1, 3, 11, 33. Common factors: 1, 11. GCF is 11.
- 19) **Choice A is correct.** **(6.NS.B.4)** Distributive property: $11(2 + 5) = 11 \cdot 2 + 11 \cdot 5 = 22 + 55 = 77$. Choice A shows the expanded form before combining.
- 20) **Choice D is correct.** **(6.NS.C.5)** The distance between -4 and 4 is $4 - (-4) = 4 + 4 = 8$ units. These two numbers are 8 units apart on a number line.
- 21) **The correct answer is $4 : 6 = 2 : 3$ (dividing by 2) and $4 : 6 = 8 : 12$ (multiplying by 2).** **(6.RP.A.1)** Nice checking: Choice A works because $4 : 6$ simplifies to $2 : 3$, and Choice B works because multiplying both parts of $4 : 6$ by 2 gives $8 : 12$. The other choices change the relationship.
- 22) **Choice A is correct.** **(6.SP.B.4)** The absolute value $|-45| = 45$ represents the magnitude. A negative balance means a debt or overdraft of \$45.
- 23) **Choice C is correct.** **(6.SP.B.4)** Distance = $\frac{3}{4} - (-\frac{1}{4}) = \frac{3}{4} + \frac{1}{4} = \frac{4}{4} = 1$.
- 24) **Choice D is correct.** **(6.NS.C.8)** A positive x -coordinate ($p > 0$) and negative y -coordinate ($q < 0$) places a point in Quadrant IV (lower right).
- 25) **Choice C is correct.** **(6.NS.C.7)** The Loan balance is $-\$200$, which is less than the positive balances of Checking (\$150) and Savings (\$320).
- 26) **Choice A is correct.** **(6.NS.C.8)** Length is $|5 - 1| = 4$ units and width is $|4 - 1| = 3$ units. The perimeter is $2(4 + 3) = 14$ units.



Hi, Math Champion!

◇ You trained hard! 3 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

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- ✓ Measurement & Conversions
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