

10

Arizona AASA

GRADE
6
MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



10 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



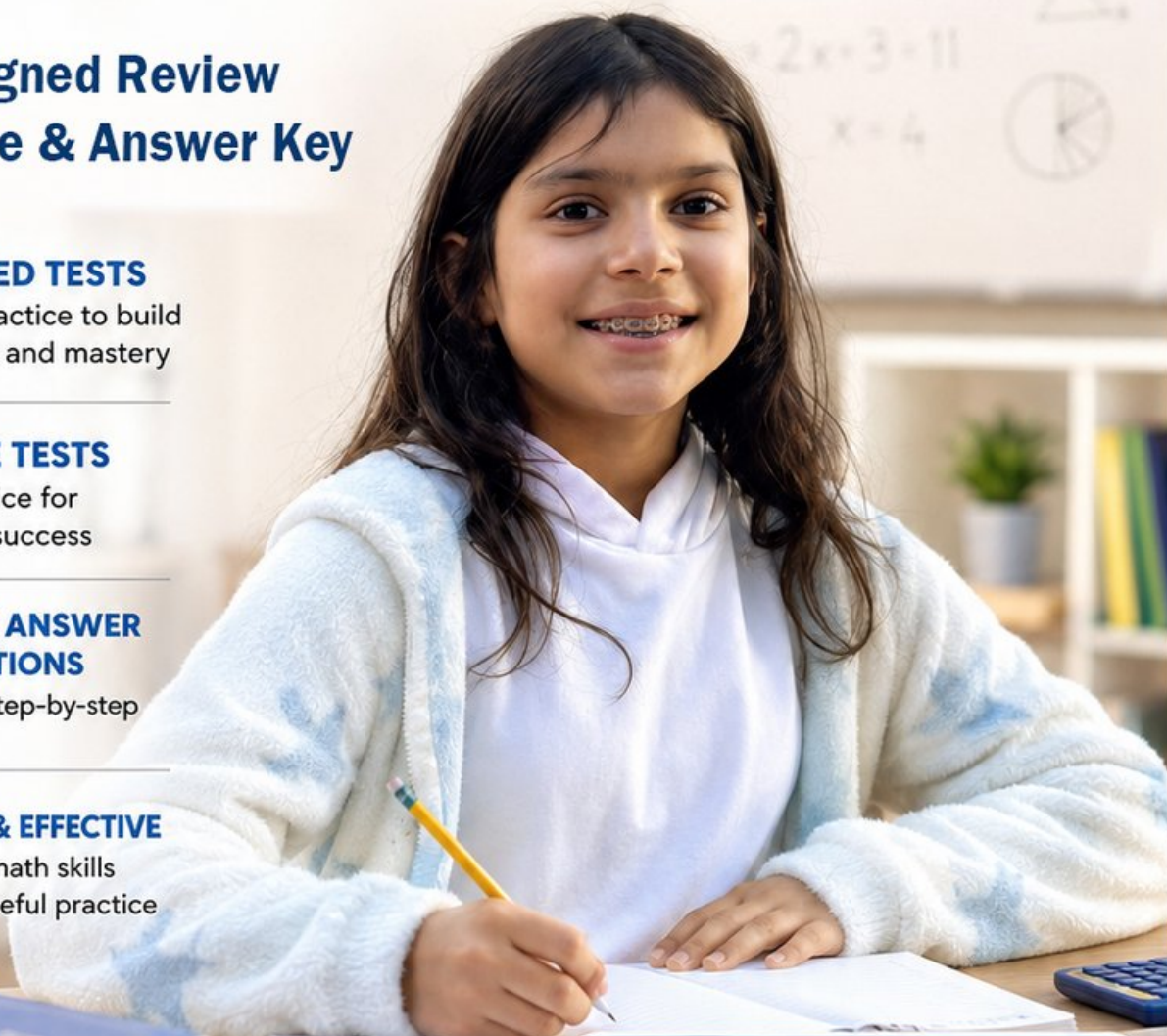
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



10 PRINTED TESTS
+ 2 ONLINE TESTS

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

PRACTICE • REVIEW • SUCCEED

10 Arizona AASA Grade 6 Math Practice Tests

Standards-Aligned Clear, Sunlit Reasoning for Arizona's Academic Standards Assessment



Ten complete 40-question Grade 6 practice rounds for AASA, 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!

Ten steady rounds on a desert canyon review route

This book gives you ten full Grade 6 practice tests for AASA. Each round uses canyon layers, bright skies, and desert problem trails 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

Look for the structure first, then choose the operation. I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for clear, sunlit reasoning

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Work in a quiet place and answer all 40 questions.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Arizona review rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Ten AASA tests, 400 questions, and a full review path

| Part | What You Will Practice |
|--------------|--|
| Tests 1–3 | Warm-up 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 | Stamina rounds for mixed review, neat work, and flexible strategy choices. |
| Test 10 | Final Arizona round to show growth across the whole book. |
| Answer Pages | Compact keys and explanations that show why each answer works. |

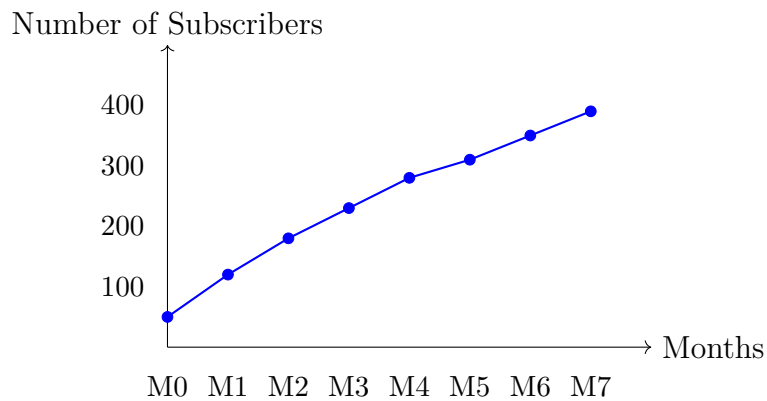
The tests are mixed on purpose. Clear, sunlit reasoning means recognizing the skill even when the next question changes topic.



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& answers

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1)

This line graph tracks a website's subscriber growth over 7 months. During which month did the subscriber count grow the LEAST?

- A. Between months 0 and 1 C. Between months 5 and 6
 B. Between months 4 and 5 D. Between months 6 and 7

2) Evaluate: $2\frac{1}{4} \div 1\frac{1}{2}$

- A. $\frac{3}{4}$ C. $\frac{9}{8}$
 B. $1\frac{1}{2}$ D. $2\frac{3}{4}$

3) A student reads 45 pages in $\frac{3}{4}$ hour. What is the reading rate in pages per hour?

- A. 34 pages per hour C. 60 pages per hour
 B. 45 pages per hour D. 68 pages per hour



4) Which unit rate is equivalent to \$15 for 6 pounds?

A. \$2.50 per pound

C. \$2.00 per pound

B. \$3.00 per pound

D. \$4.00 per pound

5) Solve: $\frac{8}{12} = \frac{x}{30}$.

A. 18

C. 22

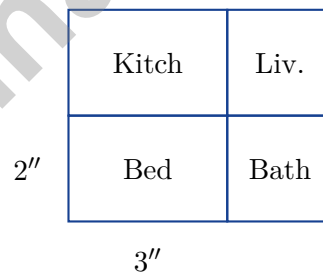
B. 20

D. 25

6) Three vertices of a rectangle are at (2, 3), (8, 3), and (8, 9). What is the area of this rectangle?



7) Below is a floor plan of a small house with a scale of 1 inch = 8 feet.



What is the actual length of the bedroom (shown as 3 inches in the drawing)?

A. 16 feet

C. 24 feet

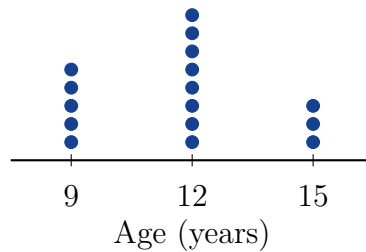
B. 20 feet

D. 32 feet



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- 8) A dot plot displays the ages of people visiting an ice cream shop. The dot plot shows 5 people aged 9 years old, 8 people aged 12 years old, and 3 people aged 15 years old. How many total people are represented in the dot plot?



- A. 16
 B. 25

- C. 20
 D. 18

- 9) A teacher scores 15 quizzes:

| Stem | Leaf |
|------|------------------|
| 7 | 0, 5, 8 |
| 8 | 1, 2, 4, 6, 7, 9 |
| 9 | 0, 2, 3, 5, 6 |

How many scores are in the 80s?

- A. 3
 B. 5
- C. 6
 D. 7
- 10) Reduce the ratio $16 : 24 : 40$ to lowest terms by dividing by the greatest common factor (GCF).
- A. $4 : 6 : 10$
 B. $2 : 3 : 10$
- C. $8 : 12 : 20$
 D. $2 : 3 : 5$



1) Fill in the blank: $_ (2 + 7) = 18 + 63$

A. 9

C. 7

B. 8

D. 10

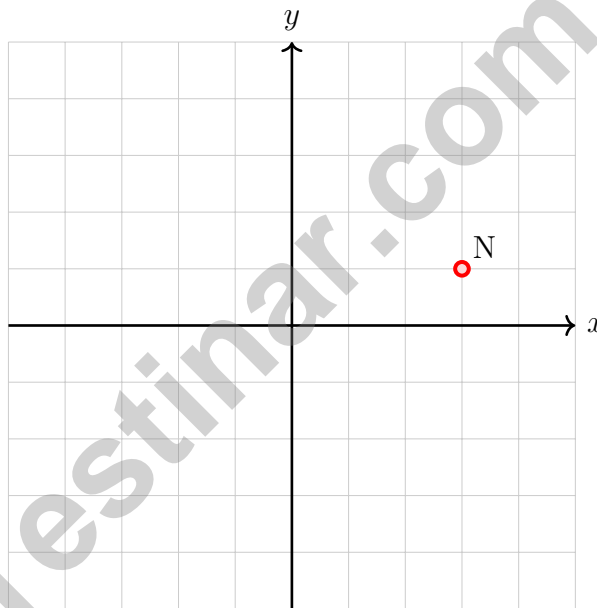
2) What is the perimeter of a square with vertices at $(0, 0)$, $(4, 0)$, $(4, 4)$, and $(0, 4)$?

A. 8 units

C. 16 units

B. 12 units

D. 20 units



3)

Point N at $(3, 1)$ is translated 2 units to the left and 3 units up. What are the coordinates of N' ?

A. $(1, 4)$

C. $(1, -2)$

B. $(5, -2)$

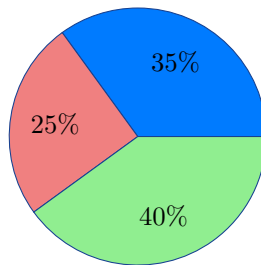
D. $(5, 4)$



- 4) A student mistakenly uses the formula $A = \pi d^2$ instead of $A = \pi r^2$ for a circle with radius 3 inches and $\pi \approx 3.14$. What incorrect area would they calculate?
- A. 113.04 in² C. 56.52 in²
 B. 28.26 in² D. 9.42 in²
- 5) A market researcher surveys customers about how much they spend on groceries each month. Why is this a statistical question?
- A. Because money is involved. D. Because different customers spend different amounts.
 B. Because surveys are statistical.
 C. Because groceries are necessary.
- 6) What is the mean of the data set: 3, 5, 7, 9, 11?
- A. 5 C. 9
 B. 11 D. 7
- 7) The ordered ages of family members are 5, 12, 25, 38, 42, 55, 68. Find the interquartile range.
- A. 17 C. 43
 B. 26 D. 63
- 8) A school has s students. It also has $s + 25$ staff members. If the school has 600 students, how many staff members does it have?



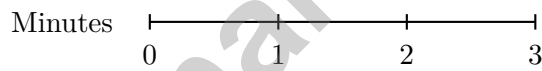
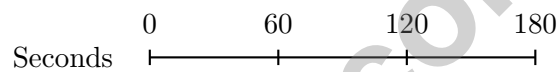
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1)

What is the central angle of the 35% section?

- A. 126°
 C. 108°
 B. 120°
 D. 135°



2)

Using the double number line, how many seconds are in 2 minutes?

- A. 60 seconds
 C. 120 seconds
 B. 100 seconds
 D. 180 seconds

3) A jacket originally costs \$80. The store is offering a 25% discount. What is the sale price?

- A. \$55
 C. \$65
 B. \$60
 D. \$75



Arizona AASA Practice Test Answer Keys

How to use this section with a Grade 6 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice B is correct.** **(6.RP.A.3)** The slope (rise) between months 4 and 5 is $3.1 - 2.8 = 0.3$, the smallest growth. Other intervals show larger increases: $0 \rightarrow 1$ is 0.7, $5 \rightarrow 6$ is 0.4, $6 \rightarrow 7$ is 0.4.
- Choice B is correct.** **(6.SP.A.3)** $2\frac{1}{4} = \frac{9}{4}$ and $1\frac{1}{2} = \frac{3}{2}$, so $\frac{9}{4} \div \frac{3}{2} = \frac{9}{4} \times \frac{2}{3} = \frac{18}{12} = \frac{3}{2} = 1\frac{1}{2}$.
- Choice C is correct.** **(6.SP.B.4)** Divide pages by time: $45 \div \frac{3}{4} = 45 \times \frac{4}{3} = \frac{180}{3} = 60$ pages per hour.
- Choice A is correct.** **(6.SP.B.5)** $\$15 \div 6 = \2.50 per pound. This is the unit rate.
- Choice B is correct.** **(6.NS.B.3)** Cross-multiply: $8 \times 30 = 12 \times x$, so $240 = 12x$, thus $x = 20$.
- The correct answer is 36.** **(6.RP.A.3)** Length = $8 - 2 = 6$ units; width = $9 - 3 = 6$ units. Area = $6 \times 6 = 36$ square units.
- Choice C is correct.** **(6.EE.B.8)** Use the scale: 3 inches \times 8 feet/inch = 24 feet.
- Choice A is correct.** **(6.RP.A.3)** Add the number of people at each age: $5 + 8 + 3 = 16$ total people.
- Choice C is correct.** **(6.NS.B.4)** Stem 8 has 6 leaves: 81, 82, 84, 86, 87, 89.
- Choice D is correct.** **(6.SP.A.2)** For a three-part ratio, divide every part by the same number. The GCF of 16, 24, and 40 is 8, so the ratio becomes 2 : 3 : 5.
- Choice A is correct.** **(6.NS.C.8)** Team A is listed first, so compare Team A to Team B as 35 : 42. Divide both scores by 7 to get 5 : 6.
- Choice B is correct.** **(6.EE.B.5)** The ratio is 7 : 3. When hamburgers are 21 (multiply by 3), hot dogs are $3 \times 3 = 9$.
- Choice D is correct.** **(6.G.A.1)** The unit rate is $8 \div 2 = 4$ oz per serving. Verify: $12 \div 3 = 4$ oz per serving ✓; $16 \div 4 = 4$ oz per serving ✓.
- The correct answer is (5, 1).** **(6.G.A.4)** Translate right: add 3 to the x -coordinate: $2 + 3 = 5$. Translate down: subtract 2 from the y -coordinate: $3 - 2 = 1$. So $E' = (5, 1)$.
- Choice D is correct.** **(6.SP.B.4)** $\frac{2}{5} = \frac{40}{100} = 40\%$, since $2 \times 20 = 40$ and $5 \times 20 = 100$.
- Choice B is correct.** **(6.NS.C.8)** Commission is 5% of $\$2000 = 0.05 \times 2000 = \100 .
- Choice B is correct.** **(6.RP.A.3)** Multiply: $2 \times 8 = 16$ pints.
- The correct answer is $201\frac{1}{7}$.** **(6.NS.B.3)** Radius $r = \frac{16}{2} = 8$ in. Area = $\pi r^2 \approx \frac{22}{7} \times 8^2 = \frac{22}{7} \times 64 = \frac{1408}{7} \approx 201\frac{1}{7}$ or approximately 201 in².
- Choice A is correct.** **(6.NS.C.7)** Bank A: $I = \$200 \times 0.05 \times 3 = \30 . Bank B: $I = \$200 \times 0.03 \times 4 = \24 . Bank A earns \$30, which is \$6 more than Bank B's \$24.
- The correct answer is Statements B, C, and E are correct: Time is the independent variable (you choose how long to run); the equation is $d = 8t$; and the constant rate is 8 mph.** **(6.EE.A.2)** Correct: B (time is independent—you control it), C (equation $d = 8t$ is correct), and E (the rate is indeed 8 mph). Incorrect: A (distance depends on time), D (reverses the relationship).
- Choice A is correct.** **(6.NS.B.4)** A relationship is proportional if y/x is constant. Option A has $5/1 = 5$, $10/2 = 5$, and $15/3 = 5$, so it is proportional. Option B has $3/1 = 3$ and $5/2 = 2.5$, so the ratio is not constant.
- Choice B is correct.** **(6.EE.A.3)** Correct savings: 25% of $\$80 = 0.25 \times 80 = \20 . The student's calculation of $\$30$ is incorrect.
- Choice A is correct.** **(6.EE.B.6)** $5,544 \div 24 = 231$. Check: $24 \times 231 = 5,544$.
- Choice A is correct.** **(6.EE.B.8)** Multiply: $63 \times 9 = 567$. With $1 + 1 = 2$ decimal places total, the answer is 5.67.
- Choice B is correct.** **(6.EE.C.9)** Factors of 15: 1, 3, 5, 15. Factors of 35: 1, 5, 7, 35. Common factors: 1, 5. GCF is 5. Distractors: 3 divides 15 only; 7 divides 35 only; 15 is the largest number but not the GCF.
- Choice B is correct.** **(6.G.A.3)** The distance is $8000 - (-5000) = 8000 + 5000 = 13000$ meters.
- Choice A is correct.** **(6.NS.C.8)** Magnitude is absolute value: $|-45| = 45$ and $|28| = 28$. Since $45 > 28$, the withdrawal has larger magnitude.
- Choice D is correct.** **(6.NS.B.4)** The decimal $0.75 = \frac{75}{100} = \frac{3}{4}$, so $-0.75 = -\frac{3}{4}$.



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Hi, Math Champion!

◇ You trained hard! 10 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 MORE. ACHIEVE MORE. SUCCEED!

This **Grade 6 Math Practice Tests** book is designed to help students build strong math skills, deepen their understanding of key concepts, and gain the confidence they need to succeed on any test.

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Achieve Success

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- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



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