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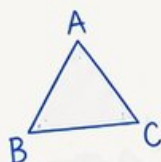
Kansas KAP

GRADE
6
MATH

PRACTICE TESTS

Standards-Aligned
Steady Southern
Problem Solving for
Comprehensive
Assessment Program

$$2x + 3 = 11$$



$$7^2 = 49$$

BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!



6 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



6 PRINTED TESTS + 2 ONLINE TESTS

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



PRACTICE

Sharpen skills with targeted practice tests



REVIEW

Understand concepts and strengthen skills



SUCCEED

Build confidence and achieve your best

6 Kansas KAP Grade 6 Math Practice Tests

Standards-Aligned Wide-Open Review Focus for Kansas Assessment Program



Six complete 40-question Grade 6 practice rounds for KAP, built for wide-open review focus 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, Kansas Math Explorer!

Eight focused rounds using wide-open review focus

This book gives you six full Grade 6 practice tests for KAP. Each round uses open horizons, wind-swept routes, and direct math thinking as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Kansas Practice Promise

Keep the path straight: identify the question, write the model, and test the answer.

Read

Plan

Check

How to Use This Book

A six-session routine for wide-open review focus

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Kansas review rhythm: Practice one round, review with a clear checklist, then return ready for the next test.



What Is Inside?

Eight KAP tests, 320 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 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	Final stamina round 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. Wide-open review focus 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 aircraft descends 800 feet. If it started at an altitude of 15,000 feet, what is its new altitude?
- A. 14,200 feet C. 15,200 feet
 B. 14,800 feet D. 15,800 feet
- 2) 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. $s \geq 80$
- 3) If a point is reflected across the y -axis, which coordinate changes?
- A. Only the x -coordinate C. Both coordinates
 B. Only the y -coordinate D. Neither coordinate
- 4) Which number is closest to zero?
- A. -4 C. -0.3
 B. 2 D. 1.5
- 5) A bank account balance is $-\$50$ (overdrawn). A deposit of $\$120$ is made. What is the new balance?

Balance: $-\$50$

↓ Deposit $+\$120$

New Balance: ?

- A. $-\$170$ C. $\$70$
 B. $-\$70$ D. $\$170$



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6) What is the value of 11^2 ?

A. 22

C. 121

B. 110

D. 132

7) Write an expression for “the sum of a number r and the product of 3 and 4”.

A. $r + 3 \cdot 4$

C. $r + 3 + 4$

B. $r \cdot 3 \cdot 4$

D. $(r + 3) \cdot 4$

8) A student says the coefficient of x in $x + 5$ is 0 because there is no number in front of x . Is this correct?

A. Yes, when no number is written, the coefficient is 0.

C. No, the coefficient is the constant 5.

B. No, when no number is written, the coefficient is 1.

D. Yes, but only if x appears at the end.

9) A restaurant sells t tacos per day. Which expression represents the total number of tacos sold in 7 days?

A. $t + 7$

C. $t - 7$

B. $\frac{t}{7}$

D. $7t$

10) Solve for x : $6x = 36$

A. $x = 6$

C. $x = 42$

B. $x = 30$

D. $x = 216$



11) The price of gas cannot go below \$2.50 per gallon. Which inequality represents the price p ?

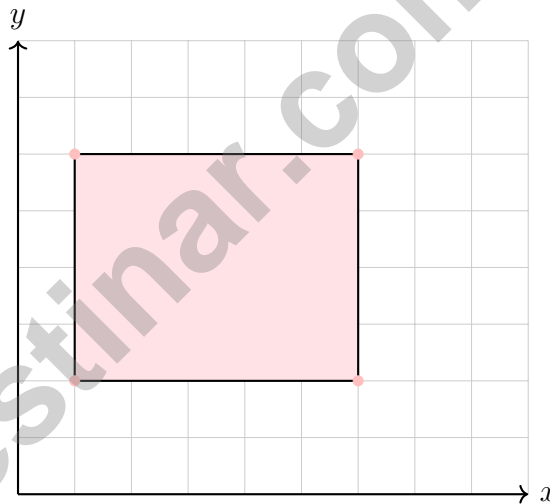
A. $p \leq 2.50$

B. $p < 2.50$

C. $p > 2.50$

D. $p \geq 2.50$

12) Prism A has dimensions 2 m, 3 m, and $\frac{5}{2}$ m. Prism B has dimensions 2.5 m, 2 m, and 3 m. Which statement is true?

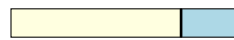
 A. Prism A has larger volume B. Prism B has larger volume C. Both have the same volume D. Cannot be determined without more info

13)

What is the area of this rectangle?

 A. 16 square units B. 18 square units C. 20 square units D. 24 square units

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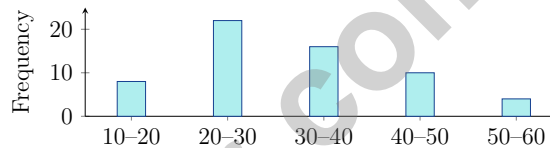
Yellow Blue

1)

The bar shows yellow and blue sections in a ratio of 3 : 1. If the blue section is 8 units, what is the length of the yellow section?

- A. 3 units
- B. 8 units
- C. 24 units
- D. 11 units

2) Which histogram correctly represents a data set where the frequency is highest for the 20–30 range and lowest for the 50–60 range?



- A. This histogram is correct
- B. The 20–30 range is too low
- C. The 50–60 range is too high
- D. The bars are not properly ordered

3) A dot plot shows: {5, 8, 12, 15, 18, 22, 28}. Identify the shape.

- A. Symmetric
- B. Skewed left
- C. Skewed right
- D. Bimodal

4) Which event is **certain** to happen?

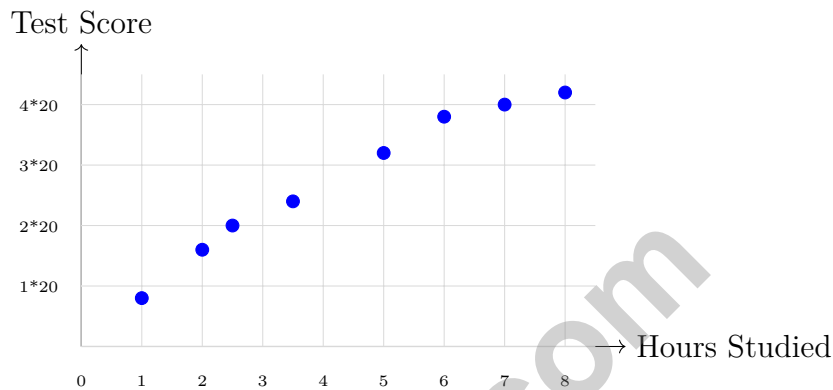
- A. Rolling a number greater than 6 on a standard die.
- B. Drawing a card from a deck and it being a heart.
- C. Flipping a coin and it landing on heads or tails.
- D. Picking a red apple from a mixed fruit bowl.



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5) The median of a dataset shown in a stem-and-leaf plot is 58. If there are 9 data points, which value must be the 5th when arranged in order?

- A. 50
- B. Cannot determine
- C. 65
- D. 58



6)

This scatter plot shows the relationship between hours studied and test scores. What trend does the plot suggest?

- A. More hours studied leads to lower scores
- B. There is no relationship between study hours and scores
- C. More hours studied generally leads to higher scores
- D. All students score the same regardless of study time

7) At a bakery, 4 loaves of bread cost \$16. At this rate, what is the cost of 7 loaves?

- A. \$24
- B. \$28
- C. \$32
- D. \$36

1) A trapezoid-shaped pool has parallel edges of 25 m and 15 m with a perpendicular distance of 8 m between them. What is the area of the pool?

- A. 40 m^2 C. 120 m^2
 B. 80 m^2 D. 160 m^2

2) A jewelry maker uses beads in a pattern: 4 red beads for every 6 blue beads. Which statement is NOT correct?

- A. The ratio of red to blue is 4 : 6. D. For every 3 red beads there are 4 blue beads.
 B. The ratio simplifies to 2 : 3.
 C. For every 2 red beads there are 3 blue beads.

3) A grocery store has two options for buying apples:

- Option A: 6 apples for \$4.80
- Option B: 8 apples for \$6.40

Which option has the lower unit price per apple?

- A. Both options cost the same per apple C. Option B has the lower unit price
 B. Option A has the lower unit price D. It is impossible to compare without more information

4) A jar contains 7 yellow marbles and 3 red marbles. If one marble is drawn at random, express the probability of drawing a red marble as a fraction in lowest terms.



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Kansas KAP Practice Test Answer Keys

How to use this Kansas KAP 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 wide-open review focus
3. rework the problem before reading the full explanation, using this reminder:
Keep the path straight: identify the question, write the model, and test the answer.

A calm Kansas correction routine turns every missed item into useful practice. Practice one round, review with a clear checklist, then return ready for the next test.



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Kansas Practice Test Answers and Explanations

Review the six printed KAP tests with direct, steady, and ready for another horizon habits.

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(6.EE.8)** Descending means altitude decreases: $15,000 - 800 = 14,200$ feet.
- 2) **Choice C is correct.** **(6.EE.7)** “More than 80%” means strictly greater than 80, so the inequality is $s > 80$ (not \geq).
- 3) **Choice A is correct.** **(6.NS.8)** When reflecting across the y -axis, the point flips left to right. This changes the sign of the x -coordinate while the y -coordinate stays the same.
- 4) **Choice C is correct.** **(6.NS.7c)** The distance from -0.3 to 0 is 0.3 units, which is smaller than the distances of the other numbers.
- 5) **Choice C is correct.** **(6.NS.3)** Starting balance: -50 . Adding a deposit of 120 : $-50 + 120 = 70$.
- 6) **Choice C is correct.** **(6.EE.1)** $11^2 = 11 \times 11 = 121$. This is a two-digit squared number.
- 7) **Choice A is correct.** **(6.EE.3)** “The product of 3 and 4” is $3 \cdot 4 = 12$. “The sum of r and” that product is $r + 3 \cdot 4$.
- 8) **Choice B is correct.** **(6.EE.2b)** When a variable has no visible coefficient, it is understood to be 1 (i.e., $x = 1x$). The coefficient is never 0 unless the term is absent.
- 9) **Choice D is correct.** **(6.EE.5)** Multiply the number of tacos per day by 7 days: $7t$.
- 10) **Choice A is correct.** **(6.EE.4)** Divide both sides by 6: $x = 36 \div 6 = 6$.
- 11) **Choice D is correct.** **(6.EE.7)** “Cannot go below” means the price must be at least: $p \geq 2.50$.
- 12) **Choice C is correct.** **(6.G.2)** Prism A: $V = 2 \times 3 \times 2.5 = 15 \text{ m}^3$. Prism B: $V = 2.5 \times 2 \times 3 = 15 \text{ m}^3$. Both equal 15 m^3 .
- 13) **Choice C is correct.** **(6.G.3)** Length = $6 - 1 = 5$ units; width = $6 - 2 = 4$ units. Area = $5 \times 4 = 20$ square units.
- 14) **Choice D is correct.** **(6.G.1)** Width: $10 - 2 = 8$ units. Height: $6 - 2 = 4$ units. Area = $8 \times 4 = 32$ square units.
- 15) **The correct answer is 6.** **(6.EE.3)** Combine like terms: $4x + 2x = 6x$.
- 16) **Choice B is correct.** **(6.G.4)** $SA = 2LW + 2LH + 2WH$, so $280 = 2(10)(6) + 2(10)H + 2(6)H = 120 + 32H$. Then $160 = 32H$, so $H = 5$ cm.
- 17) **Choice C is correct.** **(6.RP.3c)** Area = $\pi r^2 \approx 3.14 \times 5^2 = 3.14 \times 25 = 78.5 \text{ m}^2$.
- 18) **Choice B is correct.** **(6.SP.2)** Order the data: 2, 3, 4, 5, 6, 8, 10. The middle value is the 4th value, which is 5.
- 19) **The correct answer is B and C are correct. The absolute value of zero is 0, and opposites like 5 and -5 both have absolute value 5.** **(6.NS.7c)** A is incorrect because $|0| = 0$, not positive. D is incorrect because the opposite of -5 is 5, which is positive. E is incorrect because absolute value is the distance from zero, not the opposite.
- 20) **Choice A is correct.** **(6.SP.5c)** Removing a large outlier pulls the mean down toward the center of the remaining data.
- 21) **Choice C is correct.** **(6.SP.3)** Maximum = 85, minimum = 75. Range = $85 - 75 = 10$.
- 22) **Choice C is correct.** **(6.SP.4)** The frequency column shows exactly how many times each value appears. The frequency of 7 is 5. Cumulative frequency adds up to 14 total, making the mode 7, and the frequency of 6 is 4, not 11.
- 23) **Choice A is correct.** **(6.RP.1)** A symmetric box plot with equal whiskers and a centered median line indicates a symmetric distribution. This does not guarantee that the mean equals the median or that there are no outliers, nor that values are equally spaced.
- 24) **The correct answer is 60.** **(6.EE.8)** The speed is $\frac{\text{distance}}{\text{time}}$. From the table, $\frac{60 \text{ mi}}{1 \text{ h}} = 60 \text{ mph}$; or $\frac{180 \text{ mi}}{3 \text{ h}} = 60 \text{ mph}$. The constant rate of change is 60 miles per hour.
- 25) **Choice C is correct.** **(6.SP.5)** Mean < median indicates a left skew, with low-value outliers pulling the mean down below the median.
- 26) **The correct answer is 10.** **(6.G.1)** Using $A = \frac{1}{2}bh$: $80 = \frac{1}{2} \times 16 \times h \Rightarrow h = 10$ cm.
- 27) **Choice A is correct.** **(6.NS.3)** Total cookies = $8 + 2 = 10$. Oatmeal cookies = 2. Probability = $\frac{2}{10} = \frac{1}{5}$.
- 28) **Choice A is correct.** **(6.SP.4)** Range = Max - Min = $175 - 140 = 35$ cm.
- 29) **Choice A is correct.** **(6.RP.3)** Bar graphs excel at comparing values across categories (sports in this case). Line graphs show trends over time; circle graphs show parts of a whole; box plots display quartiles.



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A Note From Your Math Friend

Hi, Math Star!

◇ Wow! You finished 6 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 6 tests, you learned that trying is the most important thing. ★

Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

Big tip for test day: take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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

Jay Daie

Your Math Friend

PRACTICE TODAY. SUCCEED TOMORROW!

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 comprehensive assessments.

With 6 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.

6
PRINTED
TESTS

+
2
ONLINE
TESTS

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence

★ BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!

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 concepts aligned with standards through meaningful practice.



Test Confidence

Become familiar with test formats and improve accuracy and speed.



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.



6 FULL-LENGTH
PRINTED TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS