

7 Kansas KAP

Grade 6 MATH PRACTICE 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



7 Full-Length
Printed Tests



Standards-Aligned
Math Practice



Detailed Answer Keys
and Explanations



Build Confidence.
Achieve Success.



PREPARE
PRACTICE
SUCCEED



PRACTICE
WITH PURPOSE



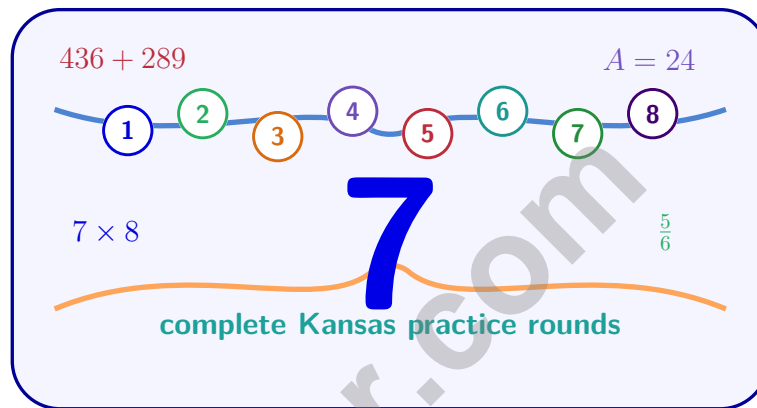
STRENGTHEN
MATH SKILLS



REVIEW, IMPROVE,
AND SUCCEED

7 Kansas KAP Grade 6 Math Practice Tests

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



Seven 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.

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Welcome, Kansas Math Explorer!

Eight focused rounds using wide-open review focus

This book gives you seven 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 seven-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 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 7	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

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	30
★ Practice Test 3	_____	47
★ Practice Test 4	_____	60
★ Practice Test 5	_____	77
★ Practice Test 6	_____	93
★ Practice Test 7	_____	107
Practice Test Answer Keys	_____	126
Practice Test Answers and Explanations	_____	131

1) In the data set 5, 7, 7, 9, 11, what is the median?

A. 5

C. 9

B. 7

D. 11

2) A survey asks 10 people: hours exercised per week. Data: {2, 3, 4, 4, 5, 5, 5, 6, 7, 8}. What is the mean?

A. 4.5

C. 5

B. 4.9

D. 5.5

3) A bag of letter tiles contains 5 A's, 3 E's, and 2 I's. If one tile is drawn at random, what is the probability that it is **not** an A?

A. $\frac{1}{10}$

C. $\frac{3}{5}$

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

D. $\frac{5}{10}$

4) 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

C. 6

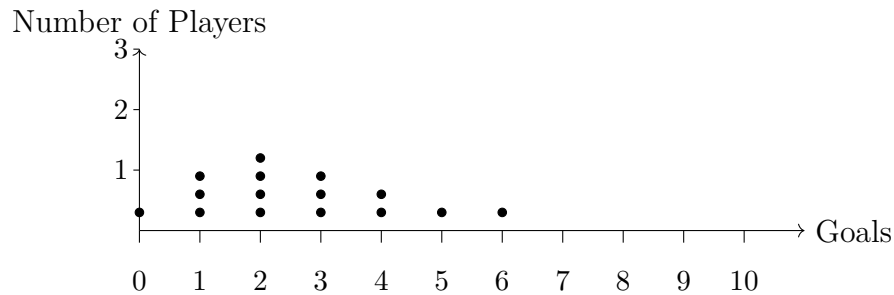
B. 5

D. 7



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5) A dot plot shows the number of goals scored by soccer players in one season:



How many players scored 2 or 3 goals?

A. 4

C. 6

B. 3

D. 7

6) A student has pens and pencils in the ratio 7 : 3. If the student has 21 pencils, how many pens does she have?

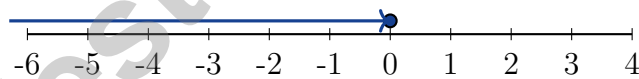
A. 28 pens

C. 7 pens

B. 63 pens

D. 49 pens

7) Which number line represents $x \leq 0$?



A. Open circle at 0, arrow left

C. Open circle at 0, arrow right

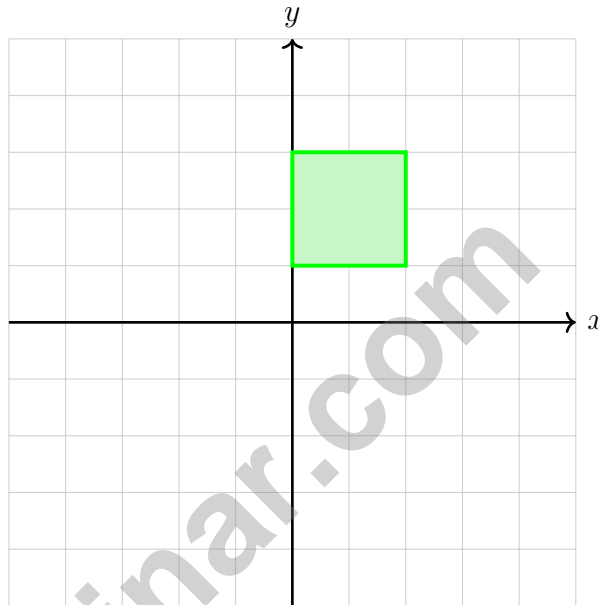
B. Closed circle at 0, arrow right

D. Closed circle at 0, arrow left



8) Comparing two triangles: Triangle A has base 20 inches and height 3 inches. Triangle B has base 10 inches and height 6 inches. Which has the larger area?

- A. Triangle A by 10 in^2
- B. Triangle B by 10 in^2
- C. They have equal areas.
- D. Triangle A by 20 in^2



9)

A rectangle with vertices at $(0, 1)$, $(2, 1)$, $(2, 3)$, and $(0, 3)$ is translated 3 units right and 2 units up. What will be the image of the vertex at $(0, 1)$?

- A. $(3, 3)$
- B. $(2, 3)$
- C. $(3, 1)$
- D. $(0, 1)$

10) A museum survey of 720 visitors asked about favorite exhibit. The circle graph shows 19% prefer nature. How many visitors prefer the nature exhibit?

- A. 130
- B. 152
- C. 143
- D. 137



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1) A thermometer shows -6°F . The temperature rises by 14°F . What is the new temperature?

A. 8°F

C. -20°F

B. -8°F

D. 20°F

2) In a student club, the ratio of 6th graders to 7th graders is 4 : 6. If there are 12 sixth graders, how many seventh graders are in the club?

3) On an elevator, someone travels down 7 floors (represented as -7). How far did they travel in terms of absolute value?

A. -7 floors

C. 0 floors

B. 7 floors

D. 14 floors

4) Convert the decimal 0.006 to a percent.

A. 0.6%

C. 60%

B. 6%

D. 600%

5) A container holds 2 gallons of water. How many pints are in the container? (Use 1 gallon = 8 pints.)

A. 10 pints

C. 24 pints

B. 16 pints

D. 8 pints



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& answers

- 6) Four friends split a restaurant bill of \$96. How much does each person owe?
- A. \$20 C. \$30
 B. \$24 D. \$32
- 7) A toy model of a building is 12 inches tall. The scale used is 1 inch = 5 feet. How tall is the actual building?
- A. 24 feet C. 48 feet
 B. 36 feet D. 60 feet
- 8) Two events are scheduled at a recreation center. Event A happens every 15 minutes and Event B happens every 25 minutes. If both start at noon, at what time will they start together again?
- A. 12 : 15 PM C. 1 : 15 PM
 B. 12 : 25 PM D. 1 : 45 PM
- 9) A fountain fills 144 gallons in 12 minutes. How many gallons per minute is the unit rate?
-
- 10) Use the GCF to factor $52 + 39$. (Hint: GCF is 13)
- A. $13(4 + 3)$ C. $13(52 + 39)$
 B. $13(4 + 39)$ D. $13(4 \times 3)$



1) Solve for x : $2x = 14$

A. $x = 7$

C. $x = 16$

B. $x = 12$

D. $x = 28$

2) A student needs to save more than \$100. What is the least whole-dollar amount that works?

3) The image shows counters arranged to show the ratio of blue to red.



3 blue, 2 red

Which statement describes this ratio correctly?

A. For every 3 blue there is 1 red.

C. For every 2 blue there are 3 red.

B. For every 5 blue there are 2 red.

D. For every 3 blue there are 2 red.

4) A store sells 9 packs of pencils for \$18. What is the unit rate in dollars per pack?

A. \$1.50 per pack

C. \$2.50 per pack

B. \$2.00 per pack

D. \$9.00 per pack



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& answers

5) Three coffee shops sell lattes. Compare their unit prices.

Shop	Quantity	Total Cost
Shop A	5 lattes	\$22.50
Shop B	8 lattes	\$32.00
Shop C	6 lattes	\$28.50

Which shop has the lowest unit price per latte?

- A. Shop A at \$4.50/latte C. Shop C at \$4.75/latte
 B. Shop B at \$4.00/latte D. All three shops have equal pricing
- 6) Option 1: 16 bagels for \$8. Option 2: 20 bagels for \$9. Which is the better buy?
- A. Option 1 C. Both cost the same
 B. Cannot determine D. Option 2
- 7) Maya sells handmade bracelets. She earned \$180 in total sales. Her supplies cost \$45. What is her profit?
- A. \$90 C. \$135
 B. \$125 D. \$180



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.



Kansas Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** (6.SP.5c) Ordered data: 5, 7, 7, 9, 11. The median (middle of 5) is the 3rd value: 7.
- 2) **Choice B is correct.** (6.SP.5) Sum = $2 + 3 + 4 + 4 + 5 + 5 + 5 + 6 + 7 + 8 = 49$. Mean = $49/10 = 4.9$.
- 3) **Choice B is correct.** (6.NS.3) Total tiles = $5 + 3 + 2 = 10$. Non-A tiles = $3 + 2 = 5$. Probability = $\frac{5}{10} = \frac{1}{2}$.
- 4) **Choice C is correct.** (6.SP.4) Stem 8 has 6 leaves: 81, 82, 84, 86, 87, 89.
- 5) **Choice D is correct.** (6.RP.3) The dot plot shows 4 dots above 2 goals and 3 dots above 3 goals. Adding: $4 + 3 = 7$ players.
- 6) **Choice D is correct.** (6.RP.1) Pencils are the 3-part amount, and they total 21. Each part is $21 \div 3 = 7$, so pens are 7 parts: $7 \times 7 = 49$.
- 7) **Choice D is correct.** (6.EE.7) $x \leq 0$ includes 0 (closed circle) and all numbers less than 0 (arrow points left).
- 8) **Choice C is correct.** (6.G.1) Triangle A: $A = \frac{1}{2} \times 20 \times 3 = 30 \text{ in}^2$. Triangle B: $A = \frac{1}{2} \times 10 \times 6 = 30 \text{ in}^2$.
- 9) **Choice A is correct.** (6.NS.8) Translate: $(0, 1) \rightarrow (0 + 3, 1 + 2) = (3, 3)$.
- 10) **Choice D is correct.** (6.EE.8c) 19% of 720 is $0.19 \times 720 = 136.8 \approx 137$ visitors.
- 11) **Choice C is correct.** (6.EE.5) In the expression $s - 8$, s represents the starting amount before giving away any stickers.
- 12) **The correct answer is 4.** (6.NS.3) Solve $-10 + x = -6$, so $x = 4$.
- 13) **Choice D is correct.** (6.EE.4) Add 9 to both sides to isolate x : $x + 9 = 14$.
- 14) **Choice C is correct.** (6.EE.7) The symbol $>$ means “greater than,” so $p > 15$ reads as “ p is greater than 15.”
- 15) **Choice B is correct.** (6.EE.8) Earnings equal hourly rate multiplied by hours worked: $E = 15h$.
- 16) **The correct answer is 137.** (6.EE.1) Parentheses first: $2 + 5 = 7$. Exponent: $7^2 = 49$. Multiply: $3 \times 49 = 147$. Finally subtract: $147 - 10 = 137$.
- 17) **Choice D is correct.** (6.G.2) $V = 8 \times 6 \times 5 = 48 \times 5 = 240 \text{ in}^3$.
- 18) **Choice C is correct.** (6.G.3) Area of trapezoid = $\frac{1}{2}(b_1 + b_2) \times h = \frac{1}{2}(5 + 7) \times 4 = \frac{1}{2}(12) \times 4 = 24$ square units.
- 19) **Choice D is correct.** (6.G.1) Base: $7 - 1 = 6$ units. Height: $8 - 1 = 7$ units. Area = $\frac{1}{2} \times 6 \times 7 = 21$ square units.
- 20) **The correct answer is 6.** (6.EE.3) Substitute $x = 5$: $30 \div 5 = 6$.
- 21) **Choice C is correct.** (6.SP.4) The bar for the 60–80 interval has height 35, representing the frequency for that range.
- 22) **The correct answer is Both true: $-5 < -2$ (five is further left) and $\frac{1}{3} > -\frac{1}{3}$ (positive > negative).** (6.NS.7c) A is true because -5 is farther left than -2 . C is true because a positive number is greater than a negative number. B, D, and E are false.
- 23) **Choice C is correct.** (6.RP.2) Mechanical pencils are the 1-part amount. If that part is 5, then wooden pencils are 4 parts: $4 \times 5 = 20$.
- 24) **Choice B is correct.** (6.RP.3c) Divide distance by time: $112 \div 7 = 16$ kilometers per hour.
- 25) **Choice B is correct.** (6.RP.3b) From any column: $\$8 \div 2 = \4 per book. All columns confirm this unit rate.
- 26) **Choice A is correct.** (6.RP.3b) Convert to the same form: $\frac{7}{10} = 70\%$. Since $70\% > 65\%$, the fraction is greater.
- 27) **Choice C is correct.** (6.RP.1) Tip: 15% of $\$32 = 0.15 \times 32 = \4.80 .
- 28) **Choice A is correct.** (6.NS.4) Peek for the biggest factor both sums share evenly: that’s 6. Pull it out softly: $18 + 24 = 6 \cdot 3 + 6 \cdot 4 = 6(3 + 4)$ —the distributive property read backward.
- 29) **Choice C is correct.** (6.G.1) Area = $6 \times 1.5 = 9 \text{ yd}^2$.
- 30) **Choice C is correct.** (6.RP.1) The upper whisker connects Q_3 to the maximum value in the dataset.



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For more practice
& answers

Hi, Math Builder!

◇ Through 7 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

★ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ★

Builder's Tools

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

Builder tip: on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

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

Jay Daie

Your Math Builder

MASTER 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 7 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.



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.



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.



7 FULL-LENGTH
PRINTED TESTS



STANDARDS-
ALIGNED PRACTICE



DETAILED ANSWER
KEYS & EXPLANATIONS