

5

Kansas KAP

GRADE 6 MATH PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



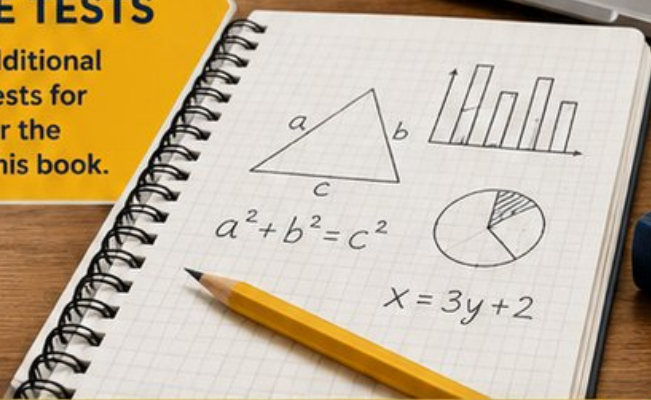
5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



+ 2 ONLINE TESTS

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



PREPARE • PRACTICE • SUCCEED



5 Kansas KAP Grade 6 Math Practice Tests

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



Five 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



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome, Kansas Math Explorer!

Eight focused rounds using wide-open review focus

This book gives you five 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 five-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 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	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.

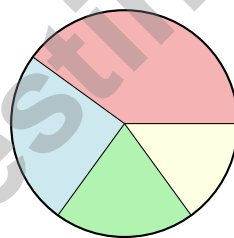


Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	32
★ Practice Test 3	_____	48
★ Practice Test 4	_____	63
★ Practice Test 5	_____	77
Practice Test Answer Keys	_____	95
Practice Test Answers and Explanations	_____	99

- 1) A recipe makes 24 servings and uses 6 cups of milk. How much milk per serving?
- A. 0.25 cups C. 1 cup
 B. 0.5 cups D. 4 cups
- 2) A recipe needs 3 cups of sugar for 24 cupcakes. How much sugar is needed per cupcake?
- A. $\frac{1}{8}$ cup per cupcake C. $\frac{1}{4}$ cup per cupcake
 B. $\frac{1}{6}$ cup per cupcake D. $\frac{3}{4}$ cup per cupcake
- 3) Which shows the correct order from least to greatest: $\frac{1}{2}$, 40%, 0.45?
- A. 40%, $\frac{1}{2}$, 0.45 C. $\frac{1}{2}$, 40%, 0.45
 B. 40%, 0.45, $\frac{1}{2}$ D. 0.45, 40%, $\frac{1}{2}$
- 4) The pie chart shows Diego's monthly budget allocation (total: \$1200).



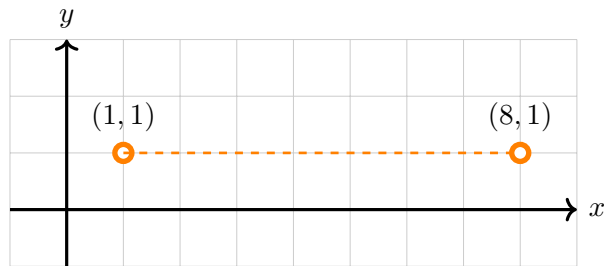
- Rent 40%
- Food 25%
- Entertainment 20%
- Savings 15%

How much does Diego allocate to Food?

- A. \$300 C. \$400
 B. \$240 D. \$480



Scan me!
For more practice
& answers



5)

What is the distance between $(1, 1)$ and $(8, 1)$?

 A. 6 units C. 8 units B. 7 units D. 9 units

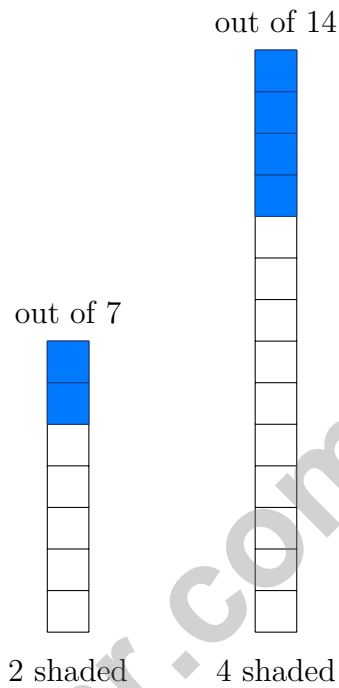
6)

Material	Sand	Gravel
Parts	4	6

A builder uses sand and gravel in a mixing ratio of 4 : 6. Which of the following is NOT equivalent to this ratio?

 A. 2 : 3 C. 12 : 18 B. 8 : 12 D. 4 : 9

7) The diagram shows two groups of shaded blocks.



Which statement is correct about the relationship between these two groups?

- A. They have the same part-to-whole ratio.
- B. The first group has more shaded blocks than the second.
- C. The second group has a higher part-to-whole ratio.
- D. The first group is twice as large as the second.



Scan me!
For more practice
& answers

1) What is the GCF of 14 and 21?

A. 2

C. 14

B. 21

D. 7

2) The temperature is 12°C and drops 2°C each hour for 6 hours. What is the final temperature number?

3) In a box plot, what portion of the data is represented by the upper whisker only?

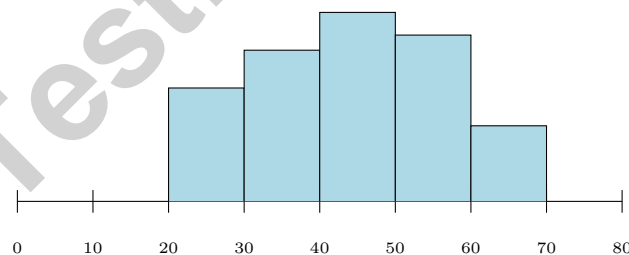
A. The bottom 25%

C. The top 25%

B. The middle 50%

D. All of the data

4) A histogram shows students' reading times (minutes). The distribution is left-skewed with mean = 42 and median = 48. What does this tell us about the data?



Reading Time (min)

A. A few students read for very long periods

C. Most students read at the same speed

B. The range is very small

D. A few students read for very short periods



5) A spinner has 12 equal sections. If you spin it, the probability of landing on blue is $\frac{1}{3}$. How many sections are blue?

A. 2

C. 4

B. 3

D. 6

6) A data set of hourly temperatures is displayed in a stem-and-leaf plot. If we remove all data points from stem 8, which statistic would definitely change?

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

A. The mode

C. The range

B. The mean

D. The minimum

7) A histogram shows test scores with intervals: 60–69 (frequency 3), 70–79 (frequency 8), 80–89 (frequency 6), 90–99 (frequency 2).

What is the total number of students who took the test?

A. 17

C. 21

B. 19

D. 24

8) The area of a triangle is $A = \frac{1}{2}bh$. Find A when $b = 6$ and $h = 8$.

A. 14

C. 48

B. 96

D. 24

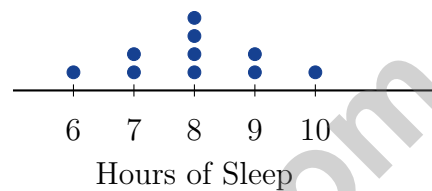


Scan me!
For more practice
& answers

1) A map uses a scale of 1 inch = 15 miles. The distance from City A to City B on the map is 3.5 inches. What is the actual distance?

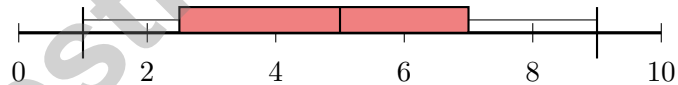
- A. 52.5 miles C. 45 miles
 B. 50 miles D. 60 miles

2) A dot plot shows hours of sleep per night for teenagers: 6, 7, 7, 8, 8, 8, 8, 9, 9, 10. What is the median?



- A. 7 hours C. 8 hours
 B. 7.5 hours D. 8.5 hours

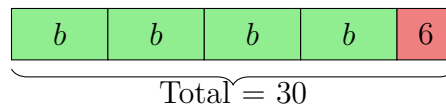
3) Use the box plot below. If the minimum value is 5 and $Q_1 = 12$, what is the length of the lower whisker?



- A. 5 C. 8
 B. 7 D. 12



Scan me!
For more practice
& answers



4)

The bar model represents $4b + 6 = 30$. Find b .

5) Corn plant heights (inches) from 9 plants: {24, 26, 28, 30, 32, 34, 36, 38, 40}. What is the shape?

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

6) A probability line goes from 0 to 1. Where would you place an event with probability $\frac{1}{4}$?

- A. At 0 (impossible). C. At $\frac{1}{2}$ (even chance).
 B. Between 0 and $\frac{1}{2}$ (unlikely). D. Between $\frac{1}{2}$ and 1 (likely).

7) A researcher plots reaction times (in milliseconds) for 11 participants:

Stem	Leaf
20	2, 5, 7
21	1, 3, 6, 8
22	0, 4, 6, 9

What is the median reaction time?

- A. 213 ms C. 218 ms
 B. 216 ms D. 220 ms



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.



Scan me!
For more practice
& answers

Kansas Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (6.RP.3b) $6 \div 24 = 0.25$ cups per serving.
- 2) **Choice A is correct.** (6.RP.3c) Divide sugar by cupcakes: $3 \div 24 = \frac{3}{24} = \frac{1}{8}$ cup per cupcake.
- 3) **Choice B is correct.** (6.RP.3b) Convert all to percents: $\frac{1}{2} = 50\%$, $40\% = 40\%$, $0.45 = 45\%$. Order: $40\% < 45\% < 50\%$.
- 4) **Choice A is correct.** (6.RP.1) Food is 25% of the budget: $0.25 \times \$1200 = \300 .
- 5) **Choice B is correct.** (6.NS.8) Same y -coordinate (1): $|8 - 1| = 7$ units.
- 6) **Choice D is correct.** (6.RP.1) The ratio 4 : 6 simplifies to 2 : 3. Choices A, B, and C all match that same relationship, but 4 : 9 does not simplify to 2 : 3.
- 7) **Choice A is correct.** (6.RP.2) The first group has 2 shaded out of 7. The second has 4 shaded out of 14, and 4 : 14 simplifies to 2 : 7. So both groups show the same part-to-whole ratio.
- 8) **Choice B is correct.** (6.RP.3) The rate is 12 : 20 or 3 : 5. For 30 papers: $30 \div 3 = 10$, so $10 \times 5 = 50$ minutes.
- 9) **Choice A is correct.** (6.RP.3a) From the table, the ratio is 1:4 (lemon juice:water). When $x = 1$ (lemon juice), $y = 4$ (water). The equation is $y = 4x$.
- 10) **Choice D is correct.** (6.RP.3b) 20% of \$24 = $0.20 \times 24 = \$4.80$. Final price is $\$24 - \$4.80 = \$19.20$.
- 11) **The correct answer is 88.** (6.SP.5) With 10 scores, the median is the average of the 5th and 6th values: $(88 + 88) \div 2 = 88$.
- 12) **Choice D is correct.** (6.RP.3) Cross-multiply: $2 \times x = 3 \times 8$, so $2x = 24$, thus $x = 12$.
- 13) **The correct answer is 20.** (6.NS.3) Expected number of spins = $0.2 \times 100 = 20$ times.
- 14) **Choice A is correct.** (6.RP.3c) Divide: $36 \div 36 = 1$ yard.
- 15) **Choice A is correct.** (6.EE.8c) The ratio p/h is constant: $12/1 = 24/2 = 36/3 = 48/4 = 12$. That means the unit rate is \$12 per hour, and the equation $p = 12h$ represents the proportional relationship.
- 16) **Choice C is correct.** (6.EE.8c) Save allocation: 10% of \$4000 = $0.10 \times 4000 = \$400$.
- 17) **Choice C is correct.** (6.RP.3) Multiply: $7 \times 2 = 14$ feet.
- 18) **The correct answer is The median divides the box into two 25% regions, and the upper whisker holds the top 25%.** (6.RP.1) B is correct: the median line splits the box so each half represents 25% of the middle 50% (thus 25% each). D is correct: the upper whisker extends from Q_3 to the max, representing the top 25%. A is wrong (lower whisker is bottom 25%, not 50%). C is incorrect (75% of data is at or below Q_3 , not above it). E is false (IQR is $Q_3 - Q_1$, not the range).
- 19) **Choice D is correct.** (6.NS.1) If $\frac{2}{5}$ lap takes $\frac{1}{3}$ minute, one lap takes $\frac{1}{3} \div \frac{2}{5} = \frac{1}{3} \times \frac{5}{2} = \frac{5}{6}$ minute.
- 20) **Choice A is correct.** (6.NS.2) $5,832 \div 27 = 216$. Check: $27 \times 216 = 5,832$.
- 21) **Choice A is correct.** (6.NS.3) Stack the decimals, subtract tenths then ones (borrowing quietly if needed), and you land on 5.6—no drama needed.
- 22) **Choice D is correct.** (6.NS.4) This is a GCF problem. The GCF of 35 and 49 is 7. So they can make 7 rows with 5 tomato and 7 pepper plants per row.
- 23) **The correct answer is 43.** (6.SP.4) In order: 32, 35, 38, 41, 43, 46, 49, 50, 54. With 9 values (odd), the median is the 5th value: 43.
- 24) **Choice D is correct.** (6.NS.5) Negative numbers are located to the left of zero on a number line. The number -6 is 6 units to the left of zero.
- 25) **Choice A is correct.** (6.NS.7c) $|-10| = 10$ because absolute value is distance from zero.
- 26) **Choice A is correct.** (6.NS.6c) Point M is halfway between 2 and 3, which is 2.5 or $2\frac{1}{2}$.
- 27) **Choice B is correct.** (6.NS.8) Point A is at $(-1, 2)$ and point B is at $(1, 2)$. The y -coordinate stays the same while the x -coordinate changes sign, which is a reflection across the y -axis.



Scan me!
For more practice
& answers

Hi, Brave Trail-Walker!

◇ You walked all 5 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



ACHIEVE SUCCESS

Consistent practice leads to greater results.

WHAT'S INSIDE?



5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



Realistic Questions

A variety of question types to strengthen problem-solving skills.



Answer Keys & Explanations

Detailed solutions to help students learn and improve.



Performance Tracking

Track progress and identify areas that need improvement.



Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



VISIT [TESTINAR.COM/MATH6](https://www.testinar.com/math6)

FOR MORE PRACTICE TESTS AND LEARNING RESOURCES



PRACTICE
REGULARLY



STAY
FOCUSED



SOLVE
CONFIDENTLY



SUCCEED
BRIGHTLY

PREPARE TODAY. **SUCCEED TOMORROW!**