

+
★
10

=
Kansas
KAP



GRADE 3

△ **MATH** ▽

÷ **PRACTICE TESTS** =

✓ Complete Standards Review

✓ Skill Practice

✓ Word Problems
and Answer Key

2 × 7 + 4



★ ★ ★
**PREPARE
PRACTICE
SUCCEED!**
★ ★ ★



Aligned to
Grade 3 Math
Standards



Build Confidence
and Master
Math Skills



Test-Taking
Practice for
Success



Answer Key
for Easy
Review

10 Kansas KAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 practice rounds for KAP, built around wide skies, sunflower rows, and careful place-value checks, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Kansas Math Explorer!

Ten steady rounds on the Sunflower State math route

This book gives you ten full Grade 3 practice tests for KAP. Each round uses wide skies, sunflower rows, and careful place-value checks to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Kansas Practice Promise

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 Kansas KAP review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Sunflower State math route.
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.

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



What Is Inside?

Ten tests, 300 questions, and a full KAP review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Kansas book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.

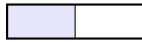


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& answers

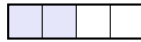
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- 6) A rectangle is covered by 6 unit squares in each row and has 4 rows. What is its area?



$$\frac{1}{2}$$



$$\frac{2}{4}$$

7)

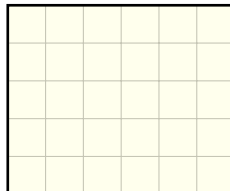
Are these fractions equal?

- A. Yes, they are equal C. No, $\frac{2}{4}$ is larger
 B. No, $\frac{1}{2}$ is larger D. Cannot tell

- 8) A composite floor shape is split by dashed lines into four rectangles. The areas are 8 sq units, 6 sq units, 6 sq units, and 4 sq units. What is the total floor area?

- A. 24 sq units C. 48 sq units
 B. 12 sq units D. 18 sq units

- 9) On this grid, how many unit squares cover the rectangle?



- A. 11 sq units C. 30 sq units
 B. 22 sq units D. 35 sq units

10) $567 + 216 = ?$

A. 783

C. 873

B. 792

D. 793

11) A square is divided into 3 equal parts. Sam colors $\frac{2}{3}$ of the square. How many parts does he color?



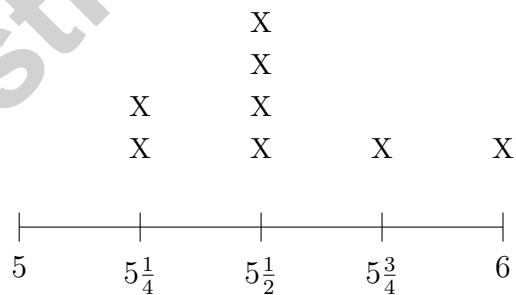
A. 1 part

C. 3 parts

B. 2 parts

D. 0 parts

12) A line plot shows shell widths in centimeters: $5, 5\frac{1}{4}, 5\frac{1}{2}, 5\frac{3}{4}, 6$.



Which width has the most shells?

A. $5\frac{1}{4}$ cm

C. $5\frac{3}{4}$ cm

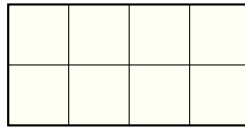
B. $5\frac{1}{2}$ cm

D. 6 cm



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- 1) How many unit squares ($1\text{ cm} \times 1\text{ cm}$) are needed to cover a 4 cm by 2 cm rectangle?



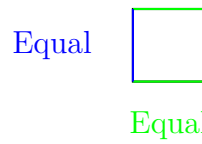
4 cm

- A. 6 unit squares
- B. 8 unit squares
- C. 10 unit squares
- D. 12 unit squares
- 2) Two identical paper strips are shown. Strip X has 4 equal parts with 3 shaded. Strip Y has 8 equal parts with 6 shaded. Do they show the same shaded fraction?
- A. The strips are different sizes.
- B. No, Strip Y is more.
- C. Yes, same fraction.
- D. No, Strip X is more.
- 3) A bar graph shows inches of rainfall. Each unit on the scale represents 10 inches. If a bar is 3 units tall, how many inches of rainfall does it represent?



- 4) A rectangle's area can be written as $3 \times (5 + 4)$. What is the total area?
- A. 12
- B. 15
- C. 27
- D. 20

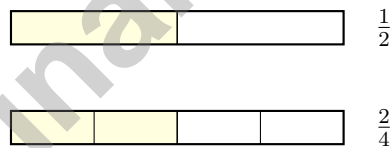




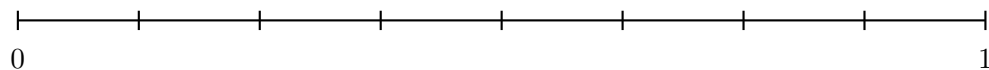
5)

In this square, the green sides are equal and the blue sides are equal. Are all 4 sides equal?

- A. Yes, all 4 sides are equal
 - B. No, only the green sides are equal
 - C. No, only the blue sides are equal
 - D. The sides have no equal length
- 6) Mia makes 28 cookies and puts 4 cookies on each plate. How many plates does she use?
- A. 7
 - B. 8
 - C. 32
 - D. 24
- 7) Look at the bars. Are $\frac{1}{2}$ and $\frac{2}{4}$ equivalent?



- A. Yes, they are equivalent
 - B. No, they are not equivalent
 - C. The first is larger
 - D. The second is larger
- 8) On a number line from 0 to 1 with 8 equal parts, which tick mark is at $\frac{7}{8}$?

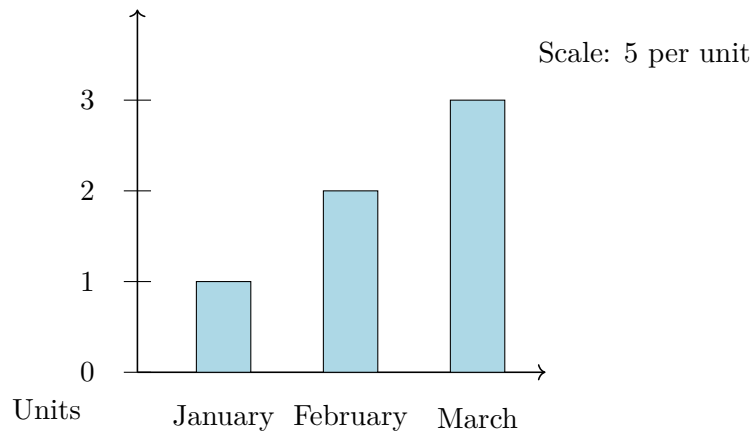


- A. The fifth tick
- B. The sixth tick
- C. The seventh tick
- D. The eighth tick



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5) Look at the bar graph. Which statement about the bars is true?



- A. March is the shortest bar.
- B. January is taller than February.
- C. March is the tallest bar.
- D. All bars are the same height.
- 6) A teacher has 40 pencils. She gives them equally to 8 students. How many pencils does each student get?

7) A unit square in meters has area 1 square meter. What is the side length?

- A. 2 meters
- B. 1 meter
- C. 0.5 meters
- D. 4 meters



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& answers

Practice Test Answer Keys

How to use this section with a Grade 3 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

- 1) **Choice D is correct.** **(3.OA.3)** $9 \text{ boxes} \times 6 \text{ cupcakes per box} = 54 \text{ cupcakes}$.
- 2) **Choice C is correct.** **(3.MD.8b)** $\text{Area} = \text{length} \times \text{width} = 9 \times 5 = 45 \text{ square inches}$.
- 3) **Choice B is correct.** **(3.OA.6)** $28 \div 4 = \square$ means $\square \times 4 = 28$. Since $7 \times 4 = 28$, the answer is 7. Option A ($6 \times 4 = 24$) is off-by-one. Option D confuses the divisor with the quotient.
- 4) **Choice C is correct.** **(3.NF.3a)** $\frac{1}{3} = \frac{2}{6}$. Both represent the same position on a number line.
- 5) **Choice A is correct.** **(3.NF.3)** Each friend gets $\frac{1}{3}$, which is equivalent to $\frac{2}{6}$.
- 6) **The correct answer is 24 square units.** **(3.MD.6)** The rectangle has 4 rows of 6 unit squares. $4 \times 6 = 24 \text{ square units}$.
- 7) **Choice A is correct.** **(3.NF.3d)** $\frac{1}{2}$ and $\frac{2}{4}$ cover the same amount. They are equivalent fractions.
- 8) **Choice A is correct.** **(3.MD.8d)** Add all four parts: $8 + 6 + 6 + 4 = 24 \text{ square units}$.
- 9) **Choice C is correct.** **(3.MD.7)** $6 \times 5 = 30 \text{ unit squares}$.
- 10) **Choice A is correct.** **(3.NBT.2)** Ones: $7 + 6 = 13$ (write 3, carry 1). Tens: $6 + 1 + 1 = 8$. Hundreds: $5 + 2 = 7$. Answer: 783.
- 11) **Choice B is correct.** **(3.G.2)** $\frac{2}{3}$ of a square divided into 3 parts means coloring 2 parts.
- 12) **Choice B is correct.** **(3.MD.5)** At $5\frac{1}{2}$ there are 4 X's. At $5\frac{1}{4}$ there are 2, at $5\frac{3}{4}$ there is 1, and at 6 there is 1.
- 13) **Choice D is correct.** **(3.G.1)** The word "quadrilateral" means "four sides." All quadrilaterals, whether squares, rectangles, or trapezoids, have exactly 4 sides.
- 14) **Choices A and B are correct.** **(3.NF.2)** $\frac{2}{6} = \frac{1}{3}$ because $\frac{2}{6}$ simplifies to $\frac{1}{3}$. They represent the same point, one-third of the way from 0 to 1. The other choices name different points.
- 15) **Choice C is correct.** **(3.NBT.1)** The ones digit is 6. Since $6 \geq 5$, round up: 816 rounds to 820.
- 16) **Choice C is correct.** **(3.MD.8c)** $2 \times (9 + 1) = 2 \times 10 = 20$ or $(2 \times 9) + (2 \times 1) = 18 + 2 = 20$.
- 17) **Choice A is correct.** **(3.MD.4)** Ava: $5 \times 2 = 10$. Noah: $3 \times 2 = 6$. Difference: $10 - 6 = 4$.
- 18) **Choice C is correct.** **(3.MD.8a)** $7 \times 5 = 35 \text{ square units}$.
- 19) **Choice D is correct.** **(3.MD.6b)** $3 \times 10 = 30 \text{ unit square tiles}$.
- 20) **Choice C is correct.** **(3.OA.5)** This is false. $8 \times 6 = 48$ but $7 \times 6 + 1 = 42 + 1 = 43$. Option C does not follow any property.
- 21) **Choice D is correct.** **(3.OA.9)** The cost goes up by \$5 each time. Five toys cost $5 \times 5 = \$25$.
- 22) **The correct answer is $\frac{4}{6}$.** **(3.NF.3b)** Multiply the numerator and denominator by 2: $\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$.
- 23) **Choice C is correct.** **(3.MD.6a)** The grid is 2 units wide and 4 units tall: $2 \times 4 = 8 \text{ unit squares} = 8 \text{ square units}$.
- 24) **Choice A is correct.** **(3.OA.2)** $10 \div 2 = 5$. The picture shows 10 items split into 2 equal groups of 5 each.
- 25) **Choice D is correct.** **(3.NF.1)** When a whole is cut into b equal parts, one part is the unit fraction $\frac{1}{b}$. Here $b = 8$, so one slice is $\frac{1}{8}$.
- 26) **Choice B is correct.** **(3.OA.7)** $7 \times 9 = 63$. Think: $7 \times 10 = 70$, then subtract one group of 7: $70 - 7 = 63$. Choice C is 7×10 ; choice A is 7×8 .
- 27) **Choice D is correct.** **(3.OA.1)** The array shows 3 rows with 4 circles in each row. So $3 \times 4 = 12 \text{ circles}$.
- 28) **Choice A is correct.** **(3.NBT.3)** Since $7 \times 50 = 350$, the missing factor is 7. We can work backwards: $350 \div 50 = 7$.
- 29) **The correct answer is 8.** **(3.NF.2b)** Each unit from 0 to 1 has 4 fourths. From 0 to 2 is 2 units, so $2 \times 4 = 8 \text{ fourths total}$.
- 30) **Choice C is correct.** **(3.MD.8)** $\text{Area} = 6 \times 3 = 18 \text{ square units}$. You can also count by adding: $3 + 3 + 3 + 3 + 3 + 3 = 18$ (six rows of three units each).

Practice Test 2 Answers and Explanations



Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 10 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 10 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

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