

9

Kansas KAP

GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY



10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 Kansas KAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Kansas, Start Your Nine-Round Math Quest

A steady Grade 3 route from first try to confident finish

This book gives you nine chances to practice like a thoughtful Kansas KAP test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Kansas has wide prairies, wheat fields, wind farms, bright storm skies, and open-road views, where careful steps matter. Strong math follows that same idea: check what the question asks, choose a useful tool, show the work, and explain before moving on.

Your Kansas Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear Kansas review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In Kansas, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with KAP support

| Part | What You Practice |
|-----------------|---|
| Nine full tests | 30 mixed Grade 3 questions in each round |
| Question styles | Multiple choice, select-all, and open-ended work spaces |
| Math topics | Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes |
| Answer support | Compact answer keys plus explanations for every item |
| Standards help | A Kansas standards reference and standard-code boxes in explanations |

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.



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& answers

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1) A city library has some books. After donating 156 books, it has 489 books left. How many books did the library have at the start?

A. 645

C. 646

B. 635

D. 636

2) A toy store has 75 action figures. They donate 15 to a daycare. The remaining figures are packed equally into 12 boxes. How many figures are in each box?

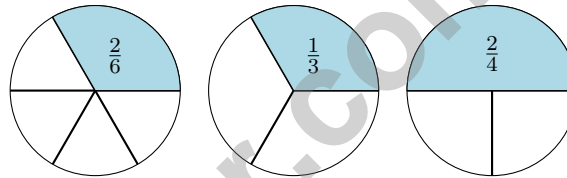
A. 5

C. 7

B. 6

D. 60

3) Look at the pie charts. Select the pair that is equivalent.



A. First and second

C. Second and third

B. First and third

D. All three

4) Ava has 54 flowers. She wants to make 9 bouquets with an equal number of flowers in each. How many flowers are in each bouquet?

A. 45

C. 63

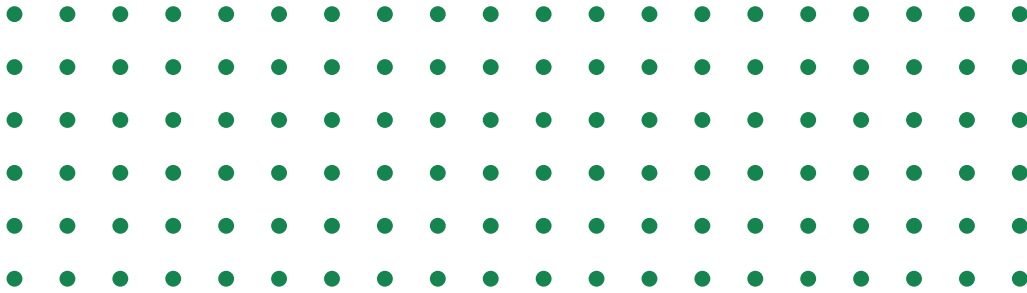
B. 8

D. 6



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- 5) There are 6 rows of flowers. Each row has 20 flowers. How many flowers are there in total?



$$6 \times 20 = ?$$

- A. 26 C. 120
 B. 62 D. 1200
- 6) A composite shape is made of a 7 ft by 2 ft rectangle and a 3 ft by 3 ft rectangle joined together. What is the total area?



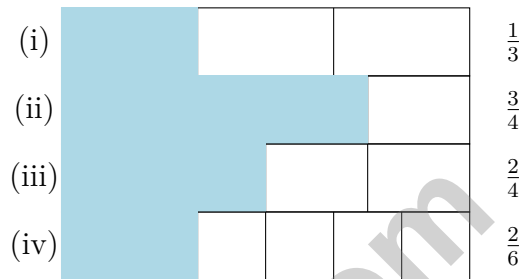
- 7) A rectangular whiteboard is 11 feet wide and 5 feet tall. What is the area of the whiteboard?
- A. 32 sq ft C. 55 sq ft
 B. 110 sq ft D. 16 sq ft

8) Which fraction is equivalent to $\frac{4}{6}$?

- A. $\frac{2}{3}$
 B. $\frac{4}{8}$

- C. $\frac{2}{4}$
 D. $\frac{1}{2}$

9) Look at the fraction bars below. Which pair shows equivalent fractions (same-size shaded regions)?

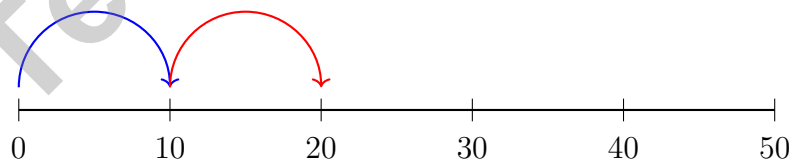


- A. (i) and (ii) C. (ii) and (iii)
 B. (iii) and (iv) D. (i) and (iv)

10) Ava has 27 marbles. She shares them equally among 3 friends. How many marbles does each friend get?

- A. 8 C. 10
 B. 11 D. 9

11)

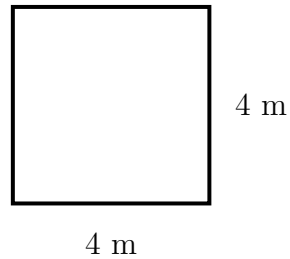


This number line shows skip counting. By how much are we jumping?

- A. By 5 C. By 15
 B. By 20 D. By 10



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1)

This is a square with side length 4 m. What is its perimeter?

- A. 8 m C. 16 m
 B. 12 m D. 24 m

2) Look at these two numbers: 245 and 255. When rounded to the nearest 100, which one gets larger?

- A. Both round to the same value C. 255 becomes bigger (300)
 B. 245 becomes bigger (300) D. Cannot tell

3) Ava buys two bags of rice. Bag A weighs 1000 g and Bag B weighs 800 g. What is the total mass in grams?

- A. 800 g C. 1800 g
 B. 1000 g D. 2000 g

4) James has 30 toy cars. He buys 10 more. Then he gives away 15 to his friend. How many toy cars does James have now?

- A. 15 C. 30
 B. 25 D. 40



1) Mia's room is shaped like a rectangle with length 7 ft and width 5 ft. What is the area of her room?

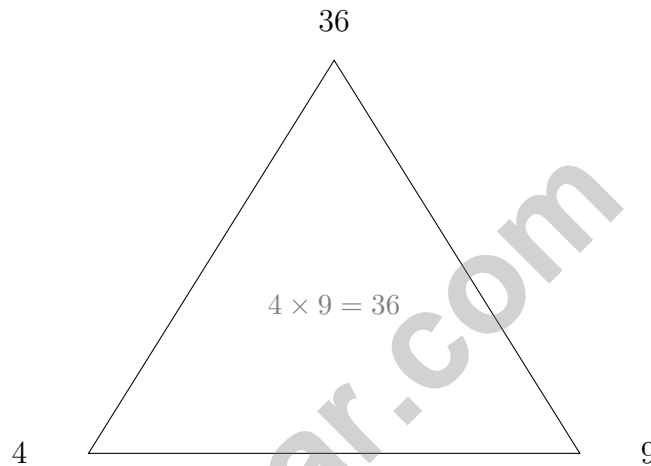
A. 12 ft^2

B. 24 ft^2

C. 49 ft^2

D. 35 ft^2

2) Look at the fact-family triangle. Which two divisions can you write?



A. $36 \div 4 = 9$ and $36 \div 9 = 4$

B. $36 \div 9 = 36$ and $36 \div 4 = 36$

C. $4 + 9 = 13$ and $36 - 13 = 23$

D. $9 \div 4 = 2$ and $36 \div 2 = 18$



3)

10 meters

A rectangular walkway is 10 meters long and 3 meters wide. What is the area of the walkway?

A. 13 sq m

B. 30 sq m

C. 26 sq m

D. 60 sq m



4) Sam has fact cards for $3 \times 6 = 18$. Which division fact is related?

A. $18 \div 3 = 6$

C. $6 \div 3 = 2$

B. $18 \div 2 = 9$

D. $18 + 3 = 21$

5) What is 2×7 ? Using the repeated addition strategy, which shows this product?

A. $7 + 7 + 7$

C. $2 + 7$

B. 7×7

D. $7 + 7$

6) What is a “unit square”?

A. A square with side length 1 unit,
used to cover and measure area with
no gaps or overlaps

B. Any square of any size

C. A square drawn on a number line

D. A rectangle that is 2 units by 1 unit

7) Which is equivalent to $\frac{1}{4}$?

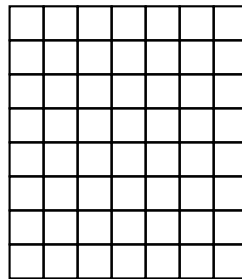
A. $\frac{2}{4}$

C. $\frac{2}{8}$

B. $\frac{1}{8}$

D. $\frac{4}{8}$

8) Here is a rectangle:



Count all the unit squares. Write how many unit squares cover this rectangle.



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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 A is correct.** **(3.NBT.2)** Add to find the starting amount: $489 + 156 = 645$. Check: $645 - 156 = 489$.
- 2) **Choice A is correct.** **(3.OA.8)** Step 1: Subtract donated: $75 - 15 = 60$ figures. Step 2: Divide into boxes: $60 \div 12 = 5$ figures per box. (Choice D is step 1 only.)
- 3) **Choice A is correct.** **(3.NF.3)** $\frac{2}{6}$ and $\frac{1}{3}$ show the same shaded amount. They are equivalent.
- 4) **Choice D is correct.** **(3.OA.3)** Divide: $54 \div 9 = 6$ flowers per bouquet.
- 5) **Choice C is correct.** **(3.NBT.3)** The array shows 6 rows with 20 items each: $6 \times 20 = 120$ items.
- 6) **The correct answer is 23 square feet.** **(3.MD.8d)** Rectangle 1: $7 \times 2 = 14$ sq ft. Rectangle 2: $3 \times 3 = 9$ sq ft. Total: $14 + 9 = 23$ sq ft.
- 7) **Choice C is correct.** **(3.MD.8b)** Area = width \times height = $11 \times 5 = 55$ square feet.
- 8) **Choice A is correct.** **(3.NF.3b)** Divide the numerator and denominator of $\frac{4}{6}$ by 2: $\frac{4 \div 2}{6 \div 2} = \frac{2}{3}$.
- 9) **Choice D is correct.** **(3.NF.3a)** (i) $\frac{1}{3}$ and (iv) $\frac{2}{6}$ are equivalent because $\frac{2}{6} = \frac{1}{3}$. Both show one-third shaded.
- 10) **Choice D is correct.** **(3.OA.6)** $27 \div 3 = \square$ means $\square \times 3 = 27$. Since $9 \times 3 = 27$, each friend gets 9 marbles.
- 11) **Choice D is correct.** **(3.OA.9)** The marks show 0, 10, 20, 30, 40, 50. Each jump is 10 units.
- 12) **The correct answer is 6.** **(3.NF.3c)** $\frac{12}{2}$ means 12 halves. 2 halves make 1 whole, so $12 \div 2 = 6$ wholes.
- 13) **Choice B is correct.** **(3.MD.3)** Subtract: $400 - 150 = 250$ g.
- 14) **Choice B is correct.** **(3.MD.8)** Area = $3 \times 5 = 15$ square feet.
- 15) **Choice A is correct.** **(3.MD.1)** $6 : 11 - 26$ min = 5 : 45 PM.
- 16) **Choices A and C are correct.** **(3.MD.6b)** Rectangles and squares with whole-number dimensions can be covered exactly by unit square tiles without gaps or leftovers. Choice A is a 3×7 rectangle = 21 tiles. Choice C is a 5×5 square = 25 tiles. Shapes with curves (B, E) or triangular points (D) cannot be covered cleanly with square tiles alone.
- 17) **Choice A is correct.** **(3.OA.2)** If $24 \div ? = 4$, then $? = 24 \div 4 = 6$. Check: $24 \div 6 = 4$ is correct.
- 18) **Choice A is correct.** **(3.MD.8c)** The distributive property breaks 5 into 2 + 3 and multiplies 7 by each part.
- 19) **Choice A is correct.** **(3.NF.2a)** When dividing into 6 equal parts, each part is $\frac{1}{6}$ of the whole.
- 20) **Choice B is correct.** **(3.NF.2b)** $\frac{5}{6}$ means $5 \times \frac{1}{6}$, so there are 5 equal steps from 0. Distractor A: distance to 1 is $\frac{1}{6}$, which is 1 part, not 1 tick per se (ambiguous). Distractor C: false; $\frac{5}{6}$ is much closer to 1. Distractor D: false; it is at the 5th tick.
- 21) **Choice D is correct.** **(3.OA.4)** Multiply: $6 \times 8 = 48$ cookies.
- 22) **Choice D is correct.** **(3.OA.1)** The picture shows 4 columns with 3 circles in each column. So $4 \times 3 = 12$ circles.
- 23) **Choice C is correct.** **(3.NF.1)** A paper folded into 3 equal parts has each part as $\frac{1}{3}$ (one-third).
- 24) **Choice A is correct.** **(3.MD.4)** Divide total by scale: $12 \div 4 = 3$ icons.
- 25) **Choice D is correct.** **(3.MD.5)** The largest count is 4 X's at $1\frac{1}{2}$ ounces. Some marks have 0 X's. The difference is $4 - 0 = 4$.
- 26) **Choice A is correct.** **(3.MD.7)** Area = $6 \times 4 = 24$ square units.
- 27) **Choice B is correct.** **(3.NF.3d)** Same numerator (2): two halves = 1 whole, two thirds = part of a whole. Halves are bigger pieces than thirds. Rule: same numerator, smaller denominator ($2 < 3$) means bigger pieces, so $\frac{2}{2} > \frac{2}{3}$.
- 28) **Choice C is correct.** **(3.G.2)** Two shaded parts out of four equal parts is $\frac{2}{4}$, which equals $\frac{1}{2}$.
- 29) **The correct answer is 30 square units.** **(3.MD.8a)** Multiply width by height: $6 \times 5 = 30$ square units. A sketch helps verify by counting rows and columns.
- 30) **Choice B is correct.** **(3.NF.2)** $\frac{2}{6}$ equals $\frac{1}{3}$ because both represent the same point on the line. You can simplify $\frac{2}{6}$ to $\frac{1}{3}$.

Practice Test 2 Answers and Explanations



Hi, Math Detective!

◇ You did such a great job! You finished 9 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

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