

5

Kansas

KAP

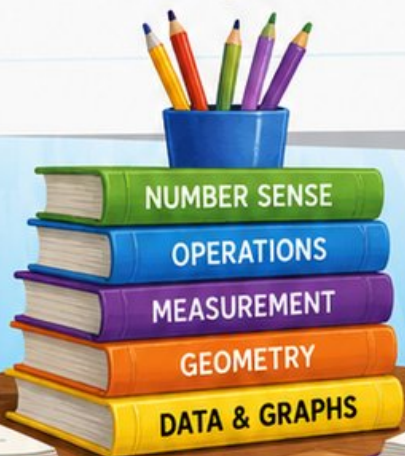
GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Practice with Review, Answer Keys, and Explanations

$24 \div 3 = 8$



5 FULL-LENGTH PRACTICE TESTS



STANDARDS-ALIGNED PRACTICE



DETAILED ANSWER KEYS



CLEAR EXPLANATIONS TO HELP YOU SUCCEED

# 5 Kansas KAP Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Five focused 30-question checkpoints for Grade 3 math: facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome to the Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

## To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Kansas KAP. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Kansas has open skies, sunflower fields, wind trails, and long roads where good plans keep you moving. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

### Notice

Circle key words, units, and numbers before you start.

### Build

Use arrays, number lines, equations, tables, or sketches.

### Verify

Ask, “Does this answer fit the question?”

**Five-checkpoint promise:** I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

# How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

**Best review habit:** Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



# What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	Turn missed items into a clear next step.
Standards Reference	See how Kansas Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. That mix gives students practice with quick choices, careful reasoning, and short written answers.

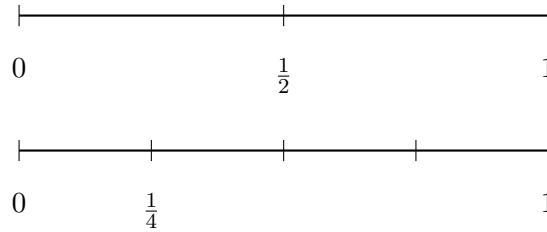


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- 1) Two number lines both show 0 to 1. One is divided into 2 parts, another into 4 parts. Which unit fraction is bigger?



- A.  $\frac{1}{2}$  is bigger
- B.  $\frac{1}{4}$  is bigger
- C. They are equal
- D. Cannot compare
- 2) A rectangular picture has an area of 35 square centimeters. Which dimensions could make this area?
- A. 5 cm and 7 cm
- B. 5 cm and 6 cm
- C. 4 cm and 8 cm
- D. 6 cm and 6 cm
- 3) A train arrives at 2 : 18 PM. A bus arrives 22 minutes after the train. What time does the bus arrive?
- A. 2 : 30 PM
- B. 2 : 35 PM
- C. 2 : 40 PM
- D. 2 : 45 PM
- 4) Which repeated addition equals  $9 + 9 + 9 + 9$ ?
- A.  $3 \times 9 = 27$
- B.  $9 \times 9 = 81$
- C.  $5 \times 9 = 45$
- D.  $4 \times 9 = 36$



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5) A T-shaped figure is divided by dashed lines into three rectangles. The given areas are 10 sq units, 6 sq units, and 6 sq units. What is the total area?

- A. 10 sq units                       C. 16 sq units  
 B. 22 sq units                       D. 360 sq units

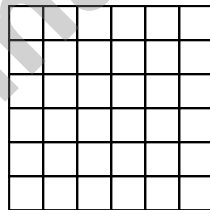
6)  $\frac{2}{3} = \frac{?}{6}$ . What is the missing numerator?

- A. 3                                       C. 5  
 B. 4                                       D. 6

7) Sam draws a number line from 0 to 2 split into 8 equal parts. He marks  $\frac{4}{8}$  of the distance from 0 to 2. At what whole number is his mark?

- A. At 0                                       C. At 2  
 B. Between 1 and 2                       D. At 1

8) Maya is laying square tiles on her kitchen floor. The floor is shaped like a large square with 6 tiles along one edge. Here is the layout:

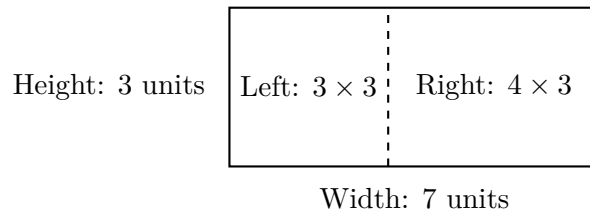


How many square tiles cover the entire floor?

- A. 12 tiles                                       C. 36 tiles  
 B. 24 tiles                                       D. 48 tiles



9) Look at this tiling diagram:



Which sum of the two smaller areas gives the total area?

- A.  $(3 \times 3) + (4 \times 3) = 9 + 12 = 21$        C.  $7 + 3 = 10$   
 B.  $3 \times (3 + 4) = 21$                        D.  $3 + 4 + 7 = 14$

10) Round 537 to the nearest 10. What is the answer?

11) Mr. Kim buys 6 cases of juice with 9 bottles in each case. He donates 15 bottles to the school. How many bottles does he have left?

- A. 24                                       C. 48  
 B. 39                                       D. 54



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1) Which fraction represents 5 whole items?

A.  $\frac{5}{5}$   
 B.  $\frac{1}{5}$

C.  $\frac{5}{1}$   
 D.  $\frac{5}{2}$

2) A picture graph shows apples in baskets. The key says each apple symbol represents 5 apples. Basket A has 2 symbols and Basket B has 4 symbols. How many apples are there in total in both baskets?

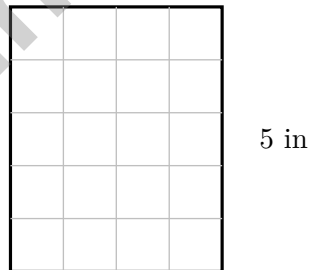
3) Mia has some stickers. She gives them equally to 3 friends. Each friend gets 6 stickers. Which equation can be used to find the total number of stickers Mia gives away?

A.  $18 \div 3 = \square$

C.  $\square - 3 = 6$

B.  $3 + 6 = \square$

D.  $\square \div 3 = 6$



5 in

4 in

4)

Count the unit squares. What is the area of the rectangle?

A. 9 sq in

C. 25 sq in

B. 20 sq in

D. 16 sq in



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5) What is  $3 \times 4$ ?

6) Which fraction equals  $\frac{2}{4}$ ?

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

B.  $\frac{2}{3}$

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

D.  $\frac{1}{3}$

7) What is  $367 + ? = 650$ ? Find the missing addend.

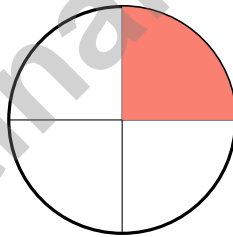
A. 283

B. 273

C. 293

D. 382

8) Look at the picture. The circle is divided into equal parts.



What unit fraction is shaded?

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

B.  $\frac{1}{3}$

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

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



1) Look at this schedule table.

Event	Time
Math class starts	9 : 10 AM
Math class ends	10 : 03 AM
Lunch starts	12 : 00 PM

How long is math class?

- A. 50 minutes                       C. 55 minutes  
 B. 53 minutes                       D. 1 hour

2) What is  $48 \div 6$ ?

- A. 7                                       C. 9  
 B. 10                                    D. 8

3) Eli has 5 coin pouches. Each pouch has 4 coins. How many coins does Eli have altogether?

- A. 9                                       C. 15  
 B. 1                                       D. 20

4) A number line from 0 to 1 is divided so that the unit fraction at the first tick is  $\frac{1}{3}$ . How long is the second tick from 0?

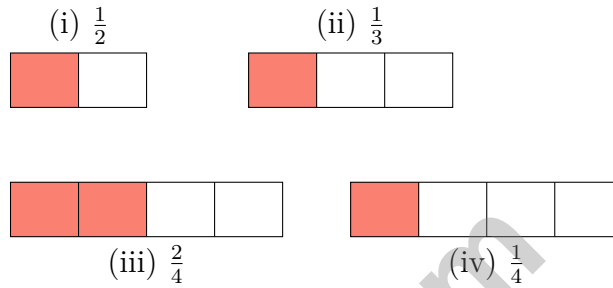
- A.  $\frac{1}{3}$                                        C.  $\frac{1}{6}$   
 B.  $\frac{2}{3}$                                        D.  $\frac{3}{2}$



5) A painting is 4 inches long and 7 inches wide. What is its area?

- A. 11 sq in                       C. 22 sq in  
 B. 28 sq in                       D. 32 sq in

6) Which visual pair shows equivalent fractions?



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

7) Which fraction is equivalent to  $\frac{2}{4}$ ?

- A.  $\frac{2}{6}$                                        C.  $\frac{1}{2}$   
 B.  $\frac{3}{8}$                                        D.  $\frac{2}{3}$

8) What is  $9 \times 80$ ?

- A. 72 (forgot to multiply by 10)                       C. 89 (added the digits)  
 B. 7200 (added two zeros)                       D. 720

9) Round 95 to the nearest 10. (Hint: This is a rollover case where the tens digit becomes 0.)

- A. 90                                       C. 100  
 B. 95                                       D. 110



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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.NF.A.2a)** Fewer parts mean larger individual pieces.  $\frac{1}{2} > \frac{1}{4}$ .
- 2) **Choice A is correct.** **(3.MD.C.6)**  $5 \times 7 = 35$  sq cm. The other choices do not equal 35.
- 3) **Choice C is correct.** **(3.MD.A.1)**  $2 : 18 + 22 \text{ min} = 2 : 40 \text{ PM}$ .
- 4) **Choice D is correct.** **(3.OA.A.1)** The addition  $9 + 9 + 9 + 9$  has four 9's, so it equals  $4 \times 9 = 36$ .
- 5) **Choice B is correct.** **(3.MD.C.7d)** Add all three parts:  $10 + 6 + 6 = 22$  square units.
- 6) **Choice B is correct.** **(3.NF.A.3b)** The denominator was multiplied by 2 (from 3 to 6). Multiply the numerator by 2:  $2 \times 2 = 4$ . So  $\frac{2}{3} = \frac{4}{6}$ .
- 7) **Choice D is correct.** **(3.NF.A.2b)**  $\frac{4}{8} = \frac{1}{2}$ . On a 0-to-2 line,  $\frac{1}{2}$  of the distance is at 1.
- 8) **Choice C is correct.** **(3.MD.C.5b)** Count the rows: 6 rows. Count down: 6 tiles in each row. Total:  $6 + 6 + 6 + 6 + 6 + 6 = 36$  square tiles.
- 9) **Choice A is correct.** **(3.MD.C.7c)** Add the two smaller rectangle areas:  $3 \times 3 = 9$  and  $4 \times 3 = 12$ , so total is 21 square units.
- 10) **The correct answer is 540.** **(3.NBT.A.1)** The ones digit is 7. Since  $7 \geq 5$ , round up: 537 rounds to 540.
- 11) **Choice B is correct.** **(3.OA.D.8)** Step 1: Find total bottles:  $6 \times 9 = 54$  bottles. Step 2: Subtract:  $54 - 15 = 39$  bottles left. (Choice D is step 1 only; choice C is incorrect.)
- 12) **Choice B is correct.** **(3.MD.A.2)** 8000 mL is more than 6000 mL. So Fountain B holds less.
- 13) **Choice D is correct.** **(3.NBT.A.3)**  $60 = 6 \times 10$ . The number bond shows that 60 can be decomposed into 6 and another factor; that factor is 10. You multiply  $6 \times 10$  to get 60.
- 14) **Choice D is correct.** **(3.OA.A.2)** If  $18 \div ? = 3$ , then  $? = 6$  because  $6 \times 3 = 18$ . Check:  $18 \div 6 = 3$  is correct.
- 15) **Choice A is correct.** **(3.MD.B.3)** Pencils:  $6 \times 2 = 12$ . Erasers:  $4 \times 2 = 8$ . Total:  $12 + 8 = 20$ .
- 16) **Choices A and B are correct.** **(3.NF.A.3d)** With the same numerator 1, smaller denominators give larger fractions. Thirds and fourths are smaller than halves. C equals one whole (larger), D equals  $\frac{1}{2}$  (not less), and E is greater than  $\frac{1}{2}$ .
- 17) **Choice D is correct.** **(3.OA.C.7)**  $72 \div 8 = 9$ . Each page holds 8 stickers, so 72 stickers fill 9 pages.
- 18) **Choice C is correct.** **(3.MD.C.5)** Multiply length by width:  $6 \times 3 = 18$  square units.
- 19) **The correct answer is  $\frac{4}{1}$ .** **(3.NF.A.3c)** Any whole number  $n$  can be written as  $\frac{n}{1}$ . So  $4 = \frac{4}{1}$ .
- 20) **Choice B is correct.** **(3.NF.A.2)** Each tick is  $\frac{1}{4}$  of the distance from 0 to 1. The second tick is 2 copies of  $\frac{1}{4} = \frac{2}{4}$ .
- 21) **Choice D is correct.** **(3.OA.D.9)** Skip counting by 2 always gives even numbers: 2, 4, 6, 8, 10, ...
- 22) **Choice C is correct.** **(3.MD.B.4)** Longer than  $8\frac{1}{2}$  means  $9, 9\frac{1}{2}$ : that is  $4 + 1 = 5$  insects.
- 23) **Choice D is correct.** **(3.NF.A.3a)**  $\frac{1}{3} = \frac{2}{6}$ . They represent the same position on a number line.
- 24) **Choice C is correct.** **(3.OA.B.5)** An array for  $4 \times 3$  has 4 columns and 3 rows. Option C shows the correct array.
- 25) **Choice C is correct.** **(3.MD.C.5a)** A  $6 \times 2$  arrangement of unit squares has area  $6 \times 2 = 12$  square units.
- 26) **Choice B is correct.** **(3.OA.B.6)** The missing factor is 3 because  $3 \times 6 = 18$ . This is the same as  $18 \div 6 = 3$ . We find the unknown factor by thinking about division. Option A ( $2 \times 6 = 12$ ) is too small. Option D confuses the known factor with the answer.
- 27) **Choice C is correct.** **(3.MD.C.7)** Area =  $10 \times 2 = 20$  square cm.
- 28) **The correct answer is  $\frac{1}{6}$ .** **(3.NF.A.1)** One of 6 equal parts is  $\frac{1}{6}$ .
- 29) **Choice B is correct.** **(3.NF.A.3)** Lily gave 2 out of 8 stickers, which is  $\frac{1}{4}$ .
- 30) **Choice D is correct.** **(3.OA.A.4)** Think:  $42 \div 7 = 6$ , so the unknown is 6. Check:  $6 \times 7 = 42$ .

### Practice Test 2 Answers and Explanations



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Star Player Pep Talk

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## Hi, Star Player!

◇ 5 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 5 tests. It's real now! ★

### Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

**Star tip:** on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Coach

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# Build Skills. Boost Confidence. Excel in Grade 3 Math!

This book provides 5 full-length Grade 3 math practice tests that follow standards and help students achieve real results.



## 5 Full-Length Practice Tests

Realistic tests to build stamina and familiarity.



## Standards-Aligned Practice

Questions match Grade 3 math standards and key skills.



## Answer Keys & Explanations

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- ✓ Word Problems
- ✓ And More!



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$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ = 274 \end{array}$$



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