

# 5 Kentucky

## KSA

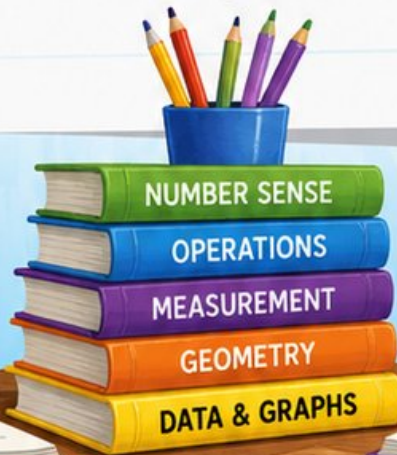
### GRADE 3

# 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 Kentucky KSA 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 Kentucky KSA. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Kentucky has bluegrass hills, river bends, horse farms, and traditions built one careful step at a time. 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 Kentucky 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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For more practice  
& answers

# Table of Contents

★ Practice Test 1	_____	13
★ Practice Test 2	_____	26
★ Practice Test 3	_____	38
★ Practice Test 4	_____	50
★ Practice Test 5	_____	62
Practice Test Answer Keys	_____	73
Practice Test Answers and Explanations	_____	77

1) A sack of potatoes weighs 10 kg. A basket of carrots weighs 3000 g. Which weighs more?

- A. Potatoes  C. They weigh the same  
 B. Carrots  D. Cannot determine

2) Sam colors  $\frac{3}{6}$  of a shape. Write an equivalent fraction.

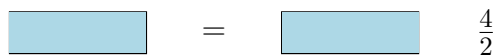
3) Eli has 24 marbles. He makes 6 equal piles. How many marbles are in each pile?

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

4) At a park, there are 6 benches. Each bench seats 5 people. How many people can sit if all benches are full?

- A. 36 people  C. 11 people  
 B. 35 people  D. 30 people

5) Look at the bar diagram. It shows  $\frac{4}{2}$ . What whole number does this equal?



- A. 1  C. 3  
 B. 2  D. 4



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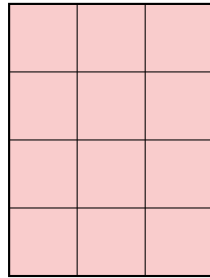
6) Noah thinks of a number. He multiplies it by 5. The result is 45. Which equation shows what Noah did?

A.  $\square \times 5 = 45$

B.  $45 \div 5 = \square$

C.  $5 + \square = 45$

D.  $\square - 5 = 45$



7)

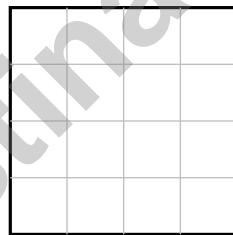
Count all the unit squares in the grid shown. How many are there?

A. 10 unit squares

B. 11 unit squares

C. 12 unit squares

D. 13 unit squares



4 units

8)

4 units

What is the area of this square?

A. 8 sq units

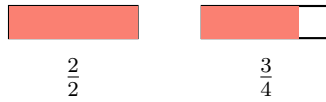
B. 16 sq units

C. 12 sq units

D. 20 sq units



9)



Order these fractions from smallest to largest:  $\frac{3}{4}$ ,  $\frac{2}{2}$ ,  $\frac{3}{8}$ .

A.  $\frac{2}{2}$ ,  $\frac{3}{4}$ ,  $\frac{3}{8}$

C.  $\frac{3}{4}$ ,  $\frac{3}{8}$ ,  $\frac{2}{2}$

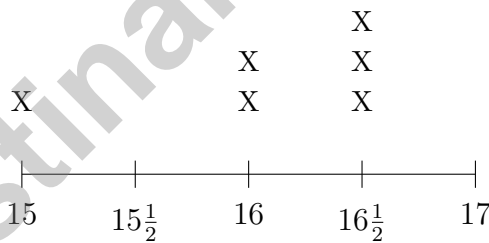
B.  $\frac{3}{8}$ ,  $\frac{3}{4}$ ,  $\frac{2}{2}$

D.  $\frac{3}{8}$ ,  $\frac{2}{2}$ ,  $\frac{3}{4}$

10) A rectangle has 4 rows of unit squares and 8 columns of unit squares. What is its area?



11) Noah recorded bird wing spans in inches with halves: 15,  $15\frac{1}{2}$ , 16,  $16\frac{1}{2}$ , 17.



Which wing span is the mode?

A. 15 inches

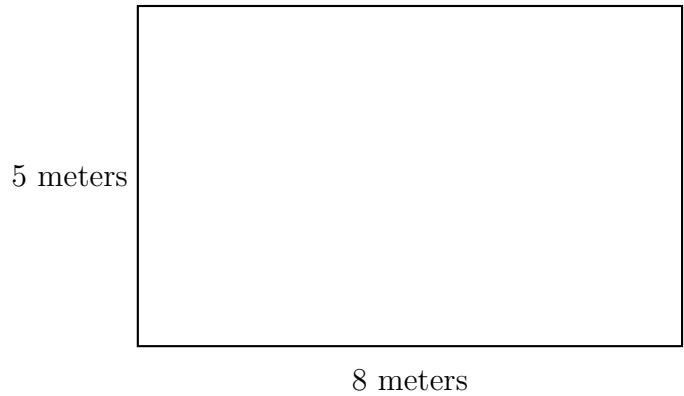
C.  $16\frac{1}{2}$  inches

B. 16 inches

D. 17 inches



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1)

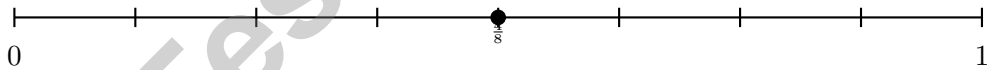
Mia measured a rectangular space and found it was 8 meters by 5 meters. What is the area?

- A. 26 sq m
- B. 80 sq m
- C. 40 sq m
- D. 13 sq m

2) Which fraction is equivalent to  $\frac{1}{3}$ ?

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

3) Which fraction names the SAME point as  $\frac{4}{8}$  on the number line from 0 to 1?



- A.  $\frac{1}{8}$
- B.  $\frac{2}{4}$
- C.  $\frac{3}{8}$
- D.  $\frac{5}{8}$



- 4) A unit square measures 1 foot by 1 foot. Sam needs to cover a floor that is 5 feet long and 4 feet wide. How many unit squares (tiles) does he need?



- 5) Eli's drawing pad is 10 centimeters long and 6 centimeters wide. What is its area?

- A. 16 sq cm                       C. 50 sq cm  
 B. 32 sq cm                       D. 60 sq cm

- 6) How many sides does a rhombus have, and are they all equal?

- A. 3 sides, all equal                       C. 5 sides, all equal  
 B. 4 sides, some equal                       D. 4 sides, all equal

- 7) A toy costs \$5. Two toys cost \$10. Three toys cost \$15. Four toys cost \$20. How much do 5 toys cost?

- A. \$24                                       C. \$26  
 B. \$30                                       D. \$25

- 8) Complete:  $\square \times 7 = 63$

- A. 7     C. 10  
 B. 8     D. 9



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1) A rectangular kitchen counter is 10 feet long and 3 feet deep. What is the area of the counter?

A. 26 sq ft

B. 60 sq ft

C. 13 sq ft

D. 30 sq ft

2) A rectangle has parts with areas 24 and 18. What is the total area?



3) Round 283 to the nearest 10.

A. 280

B. 283

C. 290

D. 300

4) A bakery made some cupcakes. It sold 312 cupcakes and has 188 left. How many cupcakes did the bakery make?

A. 500

B. 510

C. 490

D. 520

5) Which product is the greatest?

A.  $7 \times 40 = 280$

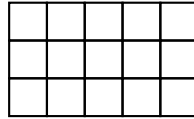
B.  $8 \times 30 = 240$

C.  $6 \times 50 = 300$

D.  $9 \times 20 = 180$



6) Look at this rectangle made of unit squares:



How many unit squares are there?

- A. 8 unit squares                       C. 15 unit squares  
 B. 12 unit squares                       D. 20 unit squares
- 7) Find  $45 \div 5$ . (Hint: Think of the related multiplication fact.)



8) A pet store has 9 cages. Each cage has 5 rabbits. Which equation can be used to find the total number of rabbits?

- A.  $9 + 5 = 14$                        C.  $5 + 5 = 10$   
 B.  $9 \times 5 = 45$                        D.  $9 - 5 = 4$
- 9) Which does NOT equal  $6 \times 3$ ?
- A.  $3 \times 6$                                    C.  $6 \times 2 + 6 \times 1$   
 B.  $6 \times (2 + 1)$                        D.  $4 \times 3 + 2$

10) Sam divides a number line from 0 to 1 into 4 equal parts. How many parts are between 0 and the second tick mark?

- A. 1     C. 3  
 B. 2     D. 4



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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.MD.A.2)**  $10 \text{ kg} = 10000 \text{ g}$ , which is more than 3000 g.
- 2) **The correct answer is  $\frac{1}{2}$ .** **(3.NF.A.3)**  $\frac{3}{6}$  equals half of a whole, so the equivalent fraction is  $\frac{1}{2}$ .
- 3) **Choice D is correct.** **(3.OA.A.2)**  $24 \div 6 = 4$ . Divide the total marbles by the number of piles.
- 4) **Choice D is correct.** **(3.OA.A.1)** 6 benches with 5 people each means 6 groups of 5. So  $6 \times 5 = 30$  people.
- 5) **Choice B is correct.** **(3.NF.A.3c)** The bar shows 4 halves. 4 halves make 2 whole units.  $\frac{4}{2} = 2$ .
- 6) **Choice A is correct.** **(3.OA.A.4)** Noah multiplies a number by 5 to get 45. This is a multiplication equation:  $\square \times 5 = 45$ , so the unknown is 9.
- 7) **Choice C is correct.** **(3.MD.C.5a)** The grid is  $3 \times 4 = 12$  unit squares.
- 8) **Choice B is correct.** **(3.MD.C.7)** The square has side length 4. Area =  $4 \times 4 = 16$  square units.
- 9) **Choice B is correct.** **(3.NF.A.3d)**  $\frac{3}{8} < \frac{3}{4}$  because eighths are smaller parts than fourths. Also,  $\frac{2}{2} = 1$ , so the order is  $\frac{3}{8}, \frac{3}{4}, \frac{2}{2}$ .
- 10) **The correct answer is 32 square units.** **(3.MD.C.7a)** Count by rows and columns:  $4 \times 8 = 32$  square units.
- 11) **Choice C is correct.** **(3.MD.B.4)** The mode is the value with the most X's. At  $16\frac{1}{2}$ , there are 3 X's, which is more than any other value.
- 12) **Choice B is correct.** **(3.MD.B.3)** Remaining:  $6 - 2 = 4$  symbols. Total crayons:  $4 \times 2 = 8$ .
- 13) **Choice C is correct.** **(3.G.A.2)** Nine equal parts means each part is  $\frac{1}{9}$  of the whole square.
- 14) **Choice B is correct.** **(3.MD.C.7d)** Left rectangle:  $3 \times 2 = 6$  sq units. Right rectangle:  $3 \times 1 = 3$  sq units. Total:  $6 + 3 = 9$  sq units.
- 15) **Choices B and C are correct.** **(3.MD.C.7b)** Area of a rectangle = length  $\times$  width =  $8 \times 5 = 40$  square feet. Choice E is false because  $8 \times 5$  equals 40, not 45. Perimeter is found by adding all four sides.
- 16) **Choice A is correct.** **(3.MD.C.7c)** Total is  $8 \times 5 = 40$ . One part is  $8 \times 3 = 24$ . Other part is  $40 - 24 = 16$ , which is  $8 \times 2$ .
- 17) **Choice B is correct.** **(3.NF.A.2b)** Six hops of size  $\frac{1}{5} = 6 \times \frac{1}{5} = \frac{6}{5} = 1\frac{1}{5}$ . The frog lands between 1 and 2.
- 18) **Choice C is correct.** **(3.MD.C.6)** Area =  $9 \times 7 = 63$  square feet.
- 19) **Choice B is correct.** **(3.NF.A.2a)** Line B has equal spacing between all ticks. Line A has unequal spacing.
- 20) **Choice D is correct.** **(3.OA.C.7)** 6 boxes with 9 cars each:  $6 \times 9 = 54$ .
- 21) **Choice C is correct.** **(3.NF.A.3b)** Divide the numerator and denominator of  $\frac{2}{6}$  by 2:  $\frac{2 \div 2}{6 \div 2} = \frac{1}{3}$ .
- 22) **Choice B is correct.** **(3.OA.D.8)** Step 1: Cookies per bag:  $42 \div 6 = 7$  cookies. Step 2: Remaining bags:  $6 - 2 = 4$  bags. Total in remaining:  $7 \times 4 = 28$  cookies. Choice B is clearest with parentheses.
- 23) **Choice C is correct.** **(3.NBT.A.3)** The array shows 6 rows with 20 items each:  $6 \times 20 = 120$  items.
- 24) **Choice C is correct.** **(3.OA.D.9)** Add 7 each time:  $42 + 7 = 49$ . Multiples of 7 always increase by 7.
- 25) **Choice C is correct.** **(3.NF.A.2)**  $\frac{3}{4}$  is 3 out of 4 equal parts, so it is at the third tick mark from 0.
- 26) **Choice D is correct.** **(3.OA.B.6)**  $30 \div 5 = \square$  means  $\square \times 5 = 30$ . Since  $6 \times 5 = 30$ , there are 6 cookies in each bag.
- 27) **Choice A is correct.** **(3.NF.A.3a)** Sandwich A has  $\frac{3}{4}$  left. Sandwich B has  $\frac{6}{8}$  left.  $\frac{3}{4} = \frac{6}{8}$ .
- 28) **Choice D is correct.** **(3.MD.C.5b)**  $2 \times 5 = 10$  square units.
- 29) **Choice D is correct.** **(3.MD.C.5)** Count the rows: 3 rows. Count the columns: 4 columns. Multiply:  $3 \times 4 = 12$  square units.
- 30) **The correct answer is 48.** **(3.MD.A.1)** From 2 : 17 to 3 : 05 is 48 minutes.

### Practice Test 2 Answers and Explanations



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## Hi, Math Pilot!

◇ 5 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

### Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

**Pilot tip:** on test day, take off one problem at a time. Trust your training. You earned your wings!

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 Pilot

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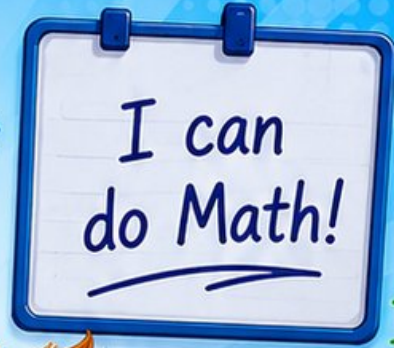
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$$\begin{array}{r} 7 \times 8 \\ \hline = 56 \end{array}$$

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

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



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