

6

Kentucky

KSA

GRADE 3

MATH

PRACTICE TESTS

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



6 Full-Length
Practice Tests



Detailed Answer Keys
and Explanations



Master Skills.
Boost Scores.
Succeed!

6 Kentucky KSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question practice labs for Grade 3 math: operations, 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 Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the Kentucky KSA. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Kentucky brings bluegrass fields, cave paths, horse farms, and river overlooks. Strong math uses that same care: read the task, select a strategy, build the solution, and follow the evidence from question to answer.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Kentucky students, each lab is a short route through bluegrass fields, cave paths, horse farms, and river overlooks: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.



What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	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. This gives students practice with quick decisions, careful reading, and short written math answers for the Kentucky KSA path.



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& answers

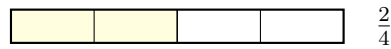
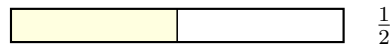
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- 1) Noah has a square poster with sides of 6 inches. What is the area of the poster?
- A. 12 sq in C. 30 sq in
 B. 24 sq in D. 36 sq in
- 2) Two buckets hold water. Bucket A holds 4000 mL and Bucket B holds 2500 mL. How much more water does Bucket A hold?
- A. 1000 mL C. 2000 mL
 B. 1500 mL D. 4000 mL
- 3) A pizza is cut into 8 equal slices. What fraction represents one slice?
- A. $\frac{1}{1}$ C. $\frac{8}{1}$
 B. $\frac{8}{8}$ D. $\frac{1}{8}$
- 4) A rectangular flag has dimensions of 7 inches long and 4 inches wide. What is the area of the flag?
- A. 22 sq in C. 28 sq in
 B. 56 sq in D. 11 sq in
- 5) A recipe needs $\frac{18}{6}$ cups of flour. How many whole cups is this?
- A. 6 C. 18
 B. 3 D. 2
- 6) Jacob has 32 toy cars. He stores them in 4 boxes with the same number in each box. How many cars are in each box?
- A. 6 cars C. 9 cars
 B. 7 cars D. 8 cars

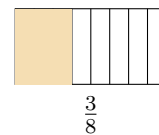
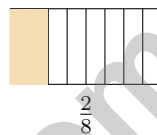
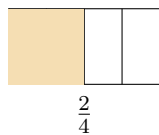
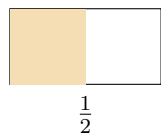


7) Look at the bars. Are $\frac{1}{2}$ and $\frac{2}{4}$ equivalent?



- A. Yes, they are equivalent C. The first is larger
 B. No, they are not equivalent D. The second is larger

8) Which pair of fractions shows the SAME amount shaded?



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

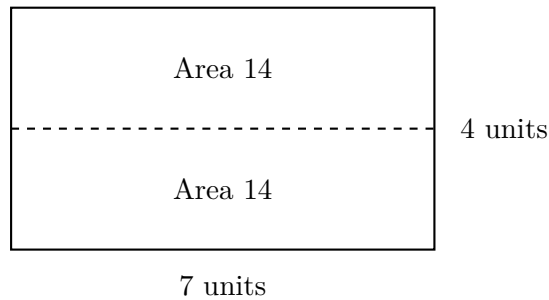
9) Ben is covering a counter with square tiles. The counter is 8 tiles long and 3 tiles wide. How many tiles does he need?

- A. 11 tiles C. 16 tiles
 B. 24 tiles D. 5 tiles



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10) A rectangle has this tiling:



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

- A. $7 \times 2 = 14$
 C. $14 + 14 = 28$
 B. $7 \times 3 = 21$
 D. $7 + 4 = 11$
- 11) Eli is looking at a number line from 0 to 3 divided into 6 equal parts. He wants to locate $\frac{3}{6}$ of the distance from 0 to 3. Is he closer to 1 or to 2?
- A. Closer to 0
 C. Closer to 3
 B. Equally close to 1 and 2
 D. Closer to 1
- 12) Fill in the missing number in the multiplication table:

×	2	3	4
5	10	15	—

What is 5×4 ? Describe the pattern.



1) If $\square \times 3 = 18$, what is $18 \div 3$?

A. 3

C. 9

B. 18

D. 6

2) Mia has some coins. She splits them equally into 6 groups. Each group has 8 coins. How many coins did Mia have to start?

3) Mia has 24 stickers. She gets 3 packs of 8 more stickers. How many stickers does Mia have now?

A. 24

C. 40

B. 32

D. 48

4) A library has 137 books. Round this to the nearest 100 to estimate how many books the library has.

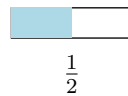
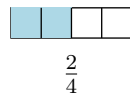
A. 100

C. 137

B. 130

D. 200

5) Look at the two fraction strips. Which shows an equivalent fraction?



A. Yes, both are equivalent

C. The first is larger

B. No, they are different

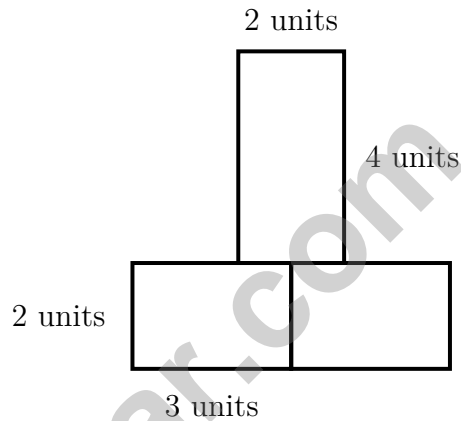
D. The second is larger



6) Sam is paving a patio with unit square stepping stones. The patio is 4 units by 7 units. How many stones does he need?

- A. 22 stones C. 56 stones
 B. 11 stones D. 28 stones

7) A T-shaped board has three parts. Top middle: 2 units by 4 units. Bottom left: 3 units by 2 units. Bottom right: 3 units by 2 units. What is the total area?



- A. 20 sq units C. 6 sq units
 B. 12 sq units D. 18 sq units

8) 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



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1) Pedro thinks of a multiplication fact to solve $54 \div 9$. Which multiplication fact helps him most?

A. $9 \times 6 = 54$

C. $9 \times 9 = 81$

B. $9 \times 8 = 72$

D. $8 \times 6 = 48$

2) Which number sentence matches “How many 5-packs of pencils are in 25 pencils?”

A. $25 + 5$

C. 5×25

B. $5 - 25$

D. $25 \div 5$

3) $524 + 312 = ?$

A. 836

C. 935

B. 846

D. 735

4) A number line goes from 0 to 1 and has 8 equal parts. The point shown is at which fraction?



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

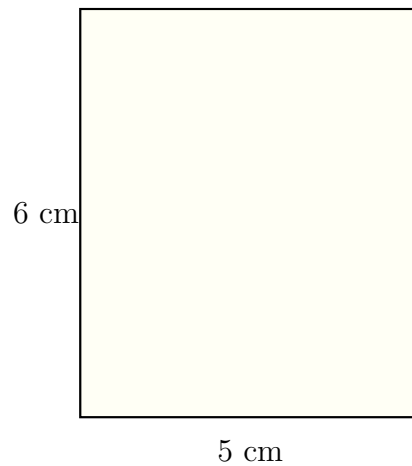
C. $\frac{3}{8}$

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

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



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5)

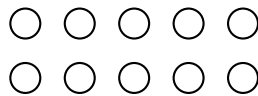
A rectangular notebook is 5 centimeters wide and 6 centimeters tall. Find the area.

- A. 11 sq cm C. 22 sq cm
 B. 30 sq cm D. 60 sq cm

6) Lily starts playing at 2 : 18 PM. She plays for 44 minutes. What time does Lily stop playing?

- A. 3 : 00 PM C. 3 : 12 PM
 B. 3 : 02 PM D. 2 : 58 PM

7)



What multiplication does this show?

- A. $2 \times 10 = 20$ C. $3 \times 5 = 15$
 B. $5 \times 5 = 25$ D. $2 \times 5 = 10$



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.** **KY.3.MD.6** Area of a square = $6 \times 6 = 36$ square inches.
- 2) **Choice B is correct.** **KY.3.MD.1** Subtract: $4000 - 2500 = 1500$ mL.
- 3) **Choice D is correct.** **KY.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 $\frac{1}{8}$.
- 4) **Choice C is correct.** **KY.3.NBT.3** Area = length \times width = $7 \times 4 = 28$ square inches.
- 5) **Choice B is correct.** **KY.3.G.2** 18 sixths = $18 \div 6 = 3$ wholes. Six sixths make one whole.
- 6) **Choice D is correct.** **KY.3.OA.6** $32 \div 4 = \square$ means $\square \times 4 = 32$. Since $8 \times 4 = 32$, each box has 8 cars.
- 7) **Choice A is correct.** **KY.3.NF.3** Both bars show the same amount shaded. $\frac{1}{2}$ and $\frac{2}{4}$ are equal.
- 8) **Choice A is correct.** **KY.3.NF.2** Both bars show the same shaded region (one-half of each bar). They are equivalent fractions.
- 9) **Choice B is correct.** **KY.3.MD.5** Multiply length by width: $8 \times 3 = 24$ tiles.
- 10) **Choice C is correct.** **KY.3.G.2** Two equal rectangles each have area 14. Add the two parts: $14 + 14 = 28$ square units.
- 11) **Choice B is correct.** **KY.3.NF.2** $\frac{3}{6} = \frac{1}{2}$. Halfway from 0 to 3 is 1.5, exactly between 1 and 2.
- 12) **The correct answer is 20.** **KY.3.OA.9** The row for 5 shows 10, 15, and then 20. Each number increases by 5 because we multiply 5 by 2, then 3, then 4. So $5 + 5 = 10 + 5 = 15 + 5 = 20$.
- 13) **Choices A and C are correct.** **KY.3.NBT.2** Check each: A is $600 - 300 = 300$, B is $450 - 140 = 310$, C is $725 - 425 = 300$, D is $512 - 211 = 301$, and E is $800 - 450 = 350$. The two differences that equal 300 are A and C.
- 14) **Choice A is correct.** **KY.3.MD.1** From 9 : 15 to 10 : 15 is 60 minutes. The class ends at 10 : 05, 10 minutes earlier: $60 - 10 = 50$ minutes. Distractor C (just adds 1 hour), B (off-by-5), D (subtracts too much).
- 15) **Choice A is correct.** **KY.3.NF.3** Both fractions equal one whole. Two halves and three thirds both fill the entire bar.
- 16) **Choice A is correct.** **KY.3.OA.2** The number line shows 5 jumps of -2 from 10 to 0. This represents $10 \div 2 = 5$ (there are 5 groups of 2 in 10).
- 17) **Choice A is correct.** **KY.3.MD.5** Upper: $7 \times 2 = 14$ sq units. Lower: $3 \times 4 = 12$ sq units. Total: $14 + 12 = 26$ sq units.
- 18) **The correct answer is 4 plants.** **KY.3.OA.2** At least 9 inches means $9, 9\frac{1}{2}$, and 10 inches: $0 + 1 + 3 = 4$ plants.
- 19) **Choice C is correct.** **KY.3.MD.5** $4 \times 4 = 16$ unit squares, area is 16 square units.
- 20) **Choice B is correct.** **KY.3.NF.2** Both $\frac{2}{4}$ and $\frac{1}{2}$ name the same point, the middle of the number line from 0 to 1.
- 21) **The correct answer is 4 right angles.** **KY.3.G.2** A square has 4 right angles.
- 22) **Choice C is correct.** **KY.3.OA.7** $8 \times 7 = 56$. You can check: $56 \div 7 = 8$.
- 23) **Choice D is correct.** **KY.3.NBT.1** The tens digit is 9. Since $9 \geq 5$, round up: 893 rounds to 900.
- 24) **Choice D is correct.** **KY.3.OA.2** 5 shelves with 8 boxes each means 5 groups of 8. So $5 \times 8 = 40$ boxes.
- 25) **Choice B is correct.** **KY.3.NF.3** Multiply numerator and denominator by 2: $\frac{1 \times 2}{4 \times 2} = \frac{2}{8}$.
- 26) **Choice B is correct.** **KY.3.NF.1** Splitting from 0 to 1 into three equal parts gives $\frac{1}{3}$ for each.
- 27) **Choice B is correct.** **KY.3.NBT.3** 8 baskets with 10 apples each = $8 \times 10 = 80$ apples. You multiply $8 \times 1 = 8$, then multiply by 10 to get 80.
- 28) **Choice D is correct.** **KY.3.OA.8** Step 1: Pencils: $3 \times 7 = 21$ items. Step 2: Pens: $4 \times 2 = 8$ items. Total: $21 + 8 = 29$ items.
- 29) **Choice D is correct.** **KY.3.OA.4** Multiply: $5 \times 7 = 35$ hours.
- 30) **Choice C is correct.** **KY.3.G.2** Two shaded parts out of four equal parts is $\frac{2}{4}$, which equals $\frac{1}{2}$.

Practice Test 2 Answers and Explanations



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

Jay Daie

Your Math Coach

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