

9

Kentucky KSA

GRADE 3 MATH PRACTICE TESTS

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



10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 Kentucky KSA 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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Kentucky, Start Your Nine-Round Math Trail

A ready Grade 3 climb from first try to confident finish

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

Kentucky has bluegrass fields, cave paths, horse farms, river overlooks, and thoughtful school days, where careful steps matter. Strong math follows that same idea: prove what the question asks, choose a useful tool, show the work, and notice before moving on.

Your Kentucky 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 Kentucky 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 Kentucky, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with KSA 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 Kentucky 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

Table of Contents

| | | |
|---|-------|------------|
| ★ Practice Test 1 | _____ | 13 |
| ★ Practice Test 2 | _____ | 25 |
| ★ Practice Test 3 | _____ | 38 |
| ★ Practice Test 4 | _____ | 51 |
| ★ Practice Test 5 | _____ | 63 |
| ★ Practice Test 6 | _____ | 75 |
| ★ Practice Test 7 | _____ | 88 |
| ★ Practice Test 8 | _____ | 100 |
| ★ Practice Test 9 | _____ | 112 |
| Practice Test Answer Keys | _____ | 124 |
| Practice Test Answers and Explanations | _____ | 130 |

1) What number makes the equation true?

$$20 \div 4 = \square$$

A. 4

C. 6

B. 7

D. 5

2) Ava has a rectangular piece of paper. The length is 7 inches and the width is 2 inches. What is the area?

A. 9 sq in

C. 12 sq in

B. 14 sq in

D. 18 sq in

3) A unit square in centimeters has side length 1 cm. What is the area of the unit square in square centimeters?



4) Which pair of divisions belongs to the same fact family as $3 \times 8 = 24$?

A. $24 \div 3 = 8$ and $24 \div 8 = 3$

C. $24 - 3 = 21$ and $24 - 8 = 16$

B. $24 \div 4 = 6$ and $24 \div 6 = 4$

D. $24 + 3 = 27$ and $24 + 8 = 32$

5) Jacob makes 7 groups of 10 beads. Fill in the place-value chart.

| Tens | Ones |
|------|------|
| — | — |

What is the total number of beads?

A. 17

C. 7

B. 70

D. 107



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6) The pattern for multiples of 6: 6, 12, 18, 24, 30, 36.

What is the rule?

- A. Add 5 each time C. Double the number
 B. Skip count by 2 D. Add 6 each time

7) Mia spent \$176 on books and \$245 on pencils. How much did Mia spend in total?

- A. \$411 C. \$420
 B. \$431 D. \$421

8) Lily starts a project at 7 : 29 AM. She works for 1 hour and 16 minutes. What time does she finish?

- A. 8 : 35 AM C. 8 : 45 AM
 B. 8 : 40 AM D. 9 : 00 AM

9) On a grid, a rectangle is 9 units wide and 4 units tall.

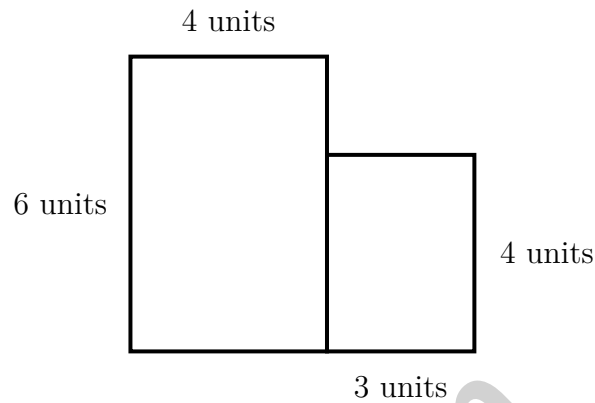


How many unit squares cover it?

- A. 13 sq units C. 32 sq units
 B. 26 sq units D. 36 sq units



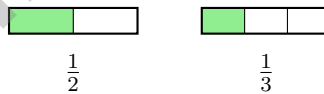
- 10) An L-shaped playground is divided by dashed lines. The left rectangle is 4 units by 6 units. The right rectangle is 3 units by 4 units. What is the total area?



- A. 36 sq units C. 12 sq units
 B. 24 sq units D. 72 sq units
- 11) Round 756 to the nearest 100.

- A. 700 C. 756
 B. 750 D. 800

12)



Using the bars, which is true?

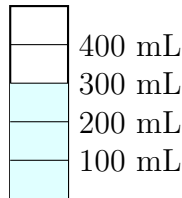
- A. $\frac{1}{2} > \frac{1}{3}$ (halves are larger pieces) D. $\frac{1}{3} > \frac{1}{2}$ (1 out of 3 is more than 1 out of 2)
 B. $\frac{1}{2} < \frac{1}{3}$ ($2 < 3$)
 C. $\frac{1}{2} = \frac{1}{3}$



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1) A square tile has sides of 3 centimeters each. What is its area in square centimeters?

- A. 6 square centimeters C. 12 square centimeters
 B. 9 square centimeters D. 3 square centimeters



2)

The beaker shows liquid to the 300 mL mark. If we pour out half the liquid, how much remains?

- A. 100 mL C. 200 mL
 B. 150 mL D. 300 mL

3) A line plot shows desk surface measurements in inches: 24, $24\frac{1}{2}$, 25, $25\frac{1}{2}$, 26. The counts are: 0 at 24 inches, 2 at $24\frac{1}{2}$ inches, 5 at 25 inches, 1 at $25\frac{1}{2}$ inches, and 2 at 26 inches. Which measurement appears most often?

- A. $24\frac{1}{2}$ inches C. $25\frac{1}{2}$ inches
 B. 25 inches D. 26 inches

| |
|-----|
| 300 |
| 70 |
| 8 |

4)

The bar model above shows 378 broken into hundreds, tens, and ones. What is $378 + 215$?

- A. 593 C. 592
 B. 583 D. 602



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5) The minute hand points to 9. What could be the time?

A. 2 : 45

C. 3 : 30

B. 9 : 05

D. 5 : 09

6) A student read $\frac{4}{1}$ books. How many whole books?

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

C. 1

B. 4

D. 8

7) A toy store has 7 shelves with 9 toys on each shelf. How many toys are on all the shelves?

A. 70 toys

C. 16 toys

B. 56 toys

D. 63 toys

8) A rectangular tile is 9 unit squares long and 7 unit squares wide. How many unit squares cover it?

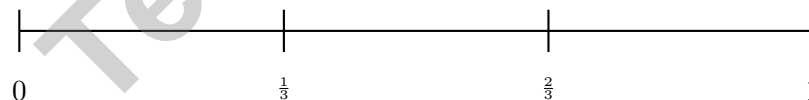
A. 54 unit squares

C. 72 unit squares

B. 63 unit squares

D. 90 unit squares

9) Look at this number line divided into 3 equal parts. Which fraction is NOT on this line?



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

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

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

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



1) There are 18 apples in a basket. 7 apples are eaten. Then 4 new apples are added. How many apples are in the basket now?

 A. 11 C. 15 B. 14 D. 18

2) A coffee maker brews 6 cups of coffee. Each cup holds 200 mL. How many milliliters of coffee does the maker brew?

 A. 200 mL C. 1000 mL B. 600 mL D. 1200 mL

3) Which fraction is NOT equivalent to $\frac{1}{3}$?

 A. $\frac{2}{6}$ C. $\frac{2}{8}$ B. $\frac{1}{2}$ D. None

4) Ava's pet kennel has room for 42 dogs. If each kennel room holds 6 dogs, how many kennel rooms does Ava need?

 A. 36 C. 8 B. 48 D. 7

5) A square has side length 6 meters. What is its perimeter?



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.OA.4)** Think: $5 \times 4 = 20$, so $20 \div 4 = 5$.
- 2) **Choice B is correct.** **(KY.3.MD.7)** Area = $7 \times 2 = 14$ square inches.
- 3) **The correct answer is 1 cm².** **(KY.3.MD.6)** Area = side length \times side length = $1 \text{ cm} \times 1 \text{ cm} = 1$ square centimeter.
- 4) **Choice A is correct.** **(KY.3.OA.6)** The fact family for $3 \times 8 = 24$ includes the related divisions $24 \div 3 = 8$ and $24 \div 8 = 3$.
- 5) **Choice B is correct.** **(KY.3.NBT.3)** The chart shows 7 tens and 0 ones. So $7 \times 10 = 70$ beads. The tens place has 7; ones place has 0.
- 6) **Choice D is correct.** **(KY.3.OA.9)** From 6 to 12 is +6; from 12 to 18 is +6. The constant difference is 6.
- 7) **Choice D is correct.** **(KY.3.NBT.2)** Add: $176 + 245 = 421$. Ones: $6 + 5 = 11$ (write 1, carry 1). Tens: $7 + 4 + 1 = 12$ (write 2, carry 1). Hundreds: $1 + 2 + 1 = 4$.
- 8) **Choice C is correct.** **(KY.3.MD.1)** $7 : 29 + 1 \text{ hour} = 8 : 29$. Then $8 : 29 + 16 \text{ min} = 8 : 45 \text{ AM}$.
- 9) **Choice D is correct.** **(KY.3.MD.6)** $9 \times 4 = 36$ unit squares.
- 10) **Choice A is correct.** **(KY.3.MD.5)** Left: $4 \times 6 = 24$ sq units. Right: $3 \times 4 = 12$ sq units. Total: $24 + 12 = 36$ sq units.
- 11) **Choice D is correct.** **(KY.3.NBT.1)** The tens digit is 5. Since $5 \geq 5$, round up: 756 rounds to 800.
- 12) **Choice A is correct.** **(KY.3.NF.3)** Same numerator (1); both fractions take 1 piece from their bar. But the first bar is divided in half (larger piece), the second in thirds (smaller piece). One half $>$ one third. Visually: the green shaded area is larger in the first bar.
- 13) **Choices A and D are correct.** **(KY.3.NF.3)** $\frac{2}{8}$ and $\frac{1}{4}$ both name one-fourth of a whole. The other choices are not equivalent to $\frac{1}{4}$.
- 14) **Choice A is correct.** **(KY.3.NF.1)** One of eight equal sections is $\frac{1}{8}$.
- 15) **Choice B is correct.** **(KY.3.G.2)** $\frac{3}{8}$ of a rectangle divided into 8 parts means shading 3 parts.
- 16) **Choice B is correct.** **(KY.3.MD.1)** Subtract: $400 - 150 = 250$ g.
- 17) **Choice A is correct.** **(KY.3.G.2)** Total area is 24. Left part is 9. Right part is $24 - 9 = 15$, which equals 3×5 .
- 18) **Choice D is correct.** **(KY.3.OA.7)** $7 \times 5 = 35$. You can use the related division: $35 \div 5 = 7$.
- 19) **Choice C is correct.** **(KY.3.MD.5)** $10 \times 4 = 40$ unit square tiles are needed.
- 20) **Choice A is correct.** **(KY.3.NF.2)** $\frac{1}{4}$ is one part out of four equal parts, so it is at the first tick mark from 0.
- 21) **Choice C is correct.** **(KY.3.NF.2)** Point H at the whole number 3 is nine thirds from 0: $\frac{9}{3} = 3$.
- 22) **The correct answer is $\frac{2}{3}$.** **(KY.3.NF.1)** $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$.
- 23) **Choice D is correct.** **(KY.3.OA.8)** Step 1: Oranges: $3 \times 7 = 21$. Step 2: Lemons: $2 \times 8 = 16$. Total: $21 + 16 = 37$ pieces.
- 24) **Choice D is correct.** **(KY.3.OA.2)** 5 boxes with 8 cupcakes each means 5 groups of 8. So $5 \times 8 = 40$ cupcakes.
- 25) **Choice A is correct.** **(KY.3.G.2)** $\frac{2}{1} = 2$ (two wholes) and $\frac{4}{2} = 2$ (four halves). Both equal 2.
- 26) **Choice B is correct.** **(KY.3.NBT.3)** Area = length \times width = $6 \times 4 = 24$ square meters. Choice A (10) is the sum; C (20) is 4×5 miscalculation; D (12) is 6×2 .
- 27) **Choice B is correct.** **(KY.3.NF.3)** The denominator was multiplied by 2 (from 3 to 6). Multiply the numerator by 2: $2 \times 2 = 4$. So $\frac{2}{3} = \frac{4}{6}$.
- 28) **Choice D is correct.** **(KY.3.OA.2)** $35 \div 7 = 5$. The blocks are divided equally among the friends.
- 29) **Choice A is correct.** **(KY.3.OA.3)** Multiply: 2 shelves \times 9 books per shelf = 18 books.
- 30) **The correct answer is 35 square units.** **(KY.3.OA.2)** $5 \times 7 = 35$ square units. Count tiles in each row and multiply by number of rows.

Practice Test 2 Answers and Explanations



Hi, Math Inventor!

◇ 9 practice tests. 9 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

STRONG TODAY. SUCCESS TOMORROW.

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9
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