

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

Kentucky KSA

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 Kentucky KSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 4 practice rounds for KSA, built around bluegrass hills, derby timing, and thoughtful math choices, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Kentucky Math Explorer!

Nine steady rounds on the Bluegrass State math route

This book gives you nine full Grade 4 practice tests for KSA. Each round uses bluegrass hills, derby timing, and thoughtful math choices to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Kentucky Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Kentucky KSA review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Bluegrass State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Nine tests, 270 questions, and a full KSA review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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5) What is $3,456 \div 4$?

A. 836

C. 856

B. 846

D. 864

6) A straight angle measures how many degrees?

A. 90 degrees

C. 150 degrees

B. 180 degrees

D. 120 degrees

7) How many lines of symmetry does a regular quadrilateral (square) have?

A. 2

C. 4

B. 3

D. 6

8) Is 30 prime or composite?

A. Prime

C. Neither

B. It depends

D. Composite

9) Which shows $\frac{7}{8}$ decomposed correctly?

A. $\frac{4}{8} + \frac{3}{8}$

C. $\frac{6}{8} + \frac{2}{8}$

B. $\frac{5}{8} + \frac{3}{8}$

D. $\frac{3}{8} + \frac{3}{8}$

10) Which list orders the fractions correctly from least to greatest?

A. $\frac{3}{12}, \frac{5}{12}, \frac{7}{12}$

C. $\frac{3}{12}, \frac{7}{12}, \frac{5}{12}$

B. $\frac{7}{12}, \frac{5}{12}, \frac{3}{12}$

D. $\frac{5}{12}, \frac{3}{12}, \frac{7}{12}$



11) How many rays make up an angle?

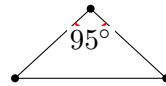
A. 1

B. 2

C. 3

D. 4

12) Look at the triangle. It has one angle that is 95 degrees. What type of triangle is it?



A. Acute triangle

B. Right triangle

C. Obtuse triangle

D. Equilateral triangle

13) Noah has 36 coins. He sorts them into 3 equal groups and keeps one group. Then he spends 5 coins. How many coins does Noah have left?

A. 16

B. 12

C. 7

D. 31

14) Select the **TWO** statements that are true.

A. 2,345 rounded to the nearest hundred is 2,400.

B. 5,678 rounded to the nearest thousand is 6,000.

C. 3,456 rounded to the nearest hundred is 3,500.

D. 7,234 rounded to the nearest thousand is 8,000.

E. 9,999 rounded to the nearest thousand is 9,000.

15) At a corner of a square, what is the angle measure?



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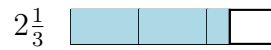
1) What is $6,001 - 2,345$?

A. 3,656

C. 4,656

B. 3,756

D. 3,556



2) $1\frac{2}{3}$

Using the bar models shown, what is $2\frac{1}{3} - 1\frac{2}{3}$?

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

C. 1

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

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

3) A pet store has 8 goldfish. It has 6 times as many guppies as goldfish. How many more guppies than goldfish does the store have?

A. 48

C. 6

B. 14

D. 40

4) $\frac{4}{5}$ can be written as the sum of four unit fractions:

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

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

B. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

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

5) What is $\frac{7}{10}$ written as a fraction with denominator 100?

A. $\frac{7}{100}$

C. $\frac{17}{100}$

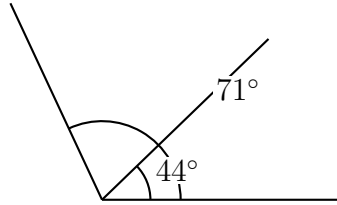
B. $\frac{70}{100}$

D. $\frac{77}{100}$



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- 6) Look at the angle diagram. An angle is divided by a ray into two parts measuring 44° and 71° .

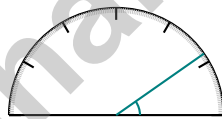


What is the total angle measure?

- A. 115° C. 145°
 B. 27° D. 180°
- 7) Express 0.23 as a fraction.

- A. $\frac{23}{10}$ C. $\frac{2}{3}$
 B. $\frac{23}{100}$ D. $\frac{23}{1000}$

8)

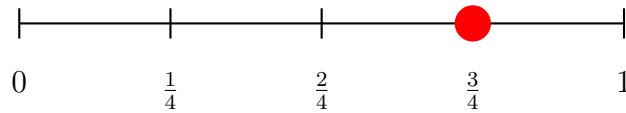


What is the measure of the angle shown?

- A. 30 degrees C. 45 degrees
 B. 40 degrees D. 35 degrees
- 9) A bakery makes 25 trays of cookies. Each tray holds 28 cookies. How many cookies are made?
- A. 600 cookies C. 750 cookies
 B. 800 cookies D. 700 cookies



1) Which fraction is shown on the number line?



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

C. $\frac{5}{8}$

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

D. $\frac{4}{5}$

2) Victor has 16 toy cars. His cousin has 2 times as many toy cars as Victor. How many toy cars does his cousin have?

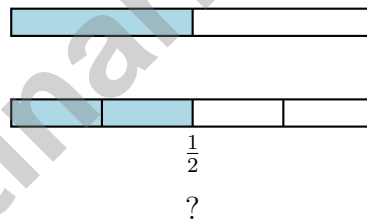
A. 18

C. 40

B. 28

D. 32

3) Look at the two fraction bars. Both bars are the same length.



Which fraction should replace the question mark?

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

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

B. $\frac{4}{4}$

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



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4) What is the product of $8 \times \frac{1}{4}$?

A. $\frac{1}{32}$

B. $\frac{8}{4}$ or 2

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

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

5) A kitchen has 240 ounces of rice to divide equally among 4 storage bins. How many ounces of rice go in each bin?

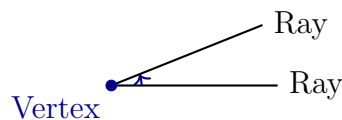
 A. 60 ounces B. 80 ounces C. 120 ounces D. 240 ounces

6) What is the measure of an angle drawn at 75° ?

7) Which letter has no line of symmetry?

 A. *S* B. *T* C. *U* D. *W*

8) Look at this angle:



What type of angle is this?

 A. An acute angle B. A right angle C. An obtuse angle D. A straight angle

Practice Test Answer Keys

How to use this section with a Grade 4 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

- Choice C is correct.** (KY.4.MD.2) There are 8 cups of juice for 6 glasses. Divide: $8 \div 6 = 1\frac{1}{3}$ cups. Each glass gets $1\frac{1}{3}$ cups.
- Choice C is correct.** (KY.4.NF.4) The baker uses $\frac{5}{8}$ cup for one batch, and makes 3 batches. Multiply: $3 \times \frac{5}{8} = \frac{3 \times 5}{8} = \frac{15}{8} = 1\frac{7}{8}$ cups. The answer is $1\frac{7}{8}$ cups.
- Choice B is correct.** (KY.4.MD.4) On the line plot, count the X marks stacked above $\frac{2}{4}$ inch. There are exactly **2** X marks at that position.
- The correct answer is 240.** (KY.4.MD.5) Two-thirds of the full turn: $\frac{2}{3} \times 360^\circ = 240^\circ$.
- Choice D is correct.** (KY.4.NBT.6) Use long division step by step: $3 \div 4 = 0$ r3, bring down the 4 to get $34 \div 4 = 8$ r2, bring down the 5 to get $25 \div 4 = 6$ r1, bring down the 6 to get $16 \div 4 = 4$. The quotient is **864**.
- Choice B is correct.** (KY.4.MD.6) A straight angle is perfectly flat—it's a straight line with two rays pointing opposite directions. This special angle always measures exactly 180° , which is the full width of the protractor. The answer is **180** degrees.
- Choice C is correct.** (KY.4.G.1) A square is perfectly balanced four ways: two lines pass through the centers of opposite sides (up/down and left/right), and two lines pass through opposite corners (diagonals). The answer is **4** lines of symmetry.
- Choice D is correct.** (KY.4.NBT.1) Hunt for factors beyond 1 and itself. 30 has lots of pairs: 2×15 , 3×10 , 5×6 . With more than two factors, 30 is **composite**.
- Choice A is correct.** (KY.4.NF.3) $\frac{7}{8}$ can split apart. Let's check A: $\frac{4}{8} + \frac{3}{8}$ —add the numerators: $4 + 3 = 7$, so we get $\frac{7}{8}$ ✓. Perfect!
- Choice A is correct.** (KY.4.NF.1) All fractions have denominator 12, so compare numerators: $3 < 5 < 7$. The order from least to greatest is $\frac{3}{12}, \frac{5}{12}, \frac{7}{12}$.
- Choice B is correct.** (KY.4.MD.5) An angle always has exactly **2** rays that start at a common endpoint.
- Choice C is correct.** (KY.4.G.2) Since one angle measures 95 degrees, which is greater than 90 degrees, this triangle is an obtuse triangle. The angle of 95 degrees is the obtuse angle. The answer is **C**.
- Choice C is correct.** (KY.4.NBT.6) Two steps! Step 1: equal groups means divide: $36 \div 3 = 12$ coins in the group Noah keeps. Step 2: subtract what he spends: $12 - 5 = 7$ coins left.
- The correct answer is B, C.** (KY.4.NBT.3) B ✓: In 5,678, hundreds digit is $6 \geq 5$, round UP to 6,000. C ✓: In 3,456, tens digit is $5 \geq 5$, round UP to 3,500. A: 2,345 rounds DOWN to 2,300. D: 7,234 rounds DOWN to 7,000. E: 9,999 rolls over to 10,000.
- The correct answer is 90.** (KY.4.G.1) The corner of a square is always a right angle, and a right angle is always 90° .
- The correct answer is $\frac{3}{4}$.** (KY.4.NF.4) Three fourths: $3 \times \frac{1}{4} = \frac{3}{4}$.
- Choice B is correct.** (KY.4.NF.4) On the number line, each jump moves forward by $\frac{1}{2}$. Four jumps starting from 0 land us at 2, showing $4 \times \frac{1}{2} = 2$.
- Choice A is correct.** (KY.4.NF.5) Compare the tenths place: $9 > 6$, so $0.96 > 0.69$. Register A has more money.
- Choice A is correct.** (KY.4.NF.3) The circular garden section is shown with yellow paint. Subtract the painted part from the whole: $1 - \frac{1}{2} = \frac{1}{2}$ unpainted.
- Choice D is correct.** (KY.4.NF.1) The denominator changes from 5 to 20. Divide: $20 \div 5 = 4$. So multiply the numerator by 4: $4 \times 4 = 16$.
- Choice D is correct.** (KY.4.NBT.5) Decompose and multiply: $33 \times (20 + 4) = 660 + 132 = 792$.
- Choice B is correct.** (KY.4.MD.3) Fencing needed = $2(18) + 2(12) = 36 + 24 = 60$ ft.
- Choice A is correct.** (KY.4.MD.1) Since 1 cup = 8 fluid ounces, divide: $120 \div 8 = 15$ cups. The answer is **15** cups.
- Choice D is correct.** (KY.4.OA.1) "2 times as many" means multiply. Kai's brother has $9 \times 2 = 18$ trucks.
- Choice B is correct.** (KY.4.NF.5) 0.5 represents half. The number line goes from 0 to 1, so 0.5 sits exactly in the middle at mark B.



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Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 9 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 9 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

With 9 full-length practice tests, students gain repeated exposure to important Grade 4 concepts while learning how to approach questions with accuracy, confidence, and strong mathematical thinking.

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