

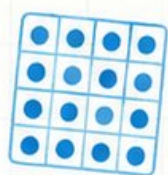
$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$

10

$$7 \times 8 = 56$$



$$\frac{3}{4}$$

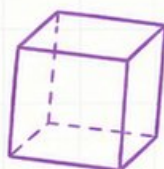


Kentucky

KSA

GRADE 4

MATH



PRACTICE TESTS

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



10 Kentucky KSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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!

Ten steady rounds on the Bluegrass State math route

This book gives you ten 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?

Ten tests, 300 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.
Test 10	Final round to show growth across the whole Kentucky book.
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.

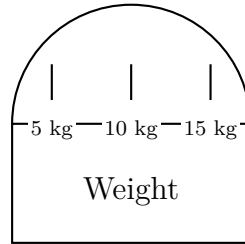


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Weight Scale



5)

A scale shows that a dog weighs 12 kilograms. How many grams does the dog weigh?

- A. 1,200 g C. 120,000 g
 B. 12,000 g D. 1,200,000 g

6) Noah drew an angle that measures 42 degrees. How many one-degree angles does his angle contain?

7) A ribbon is cut into 2 equal pieces, and 1 piece is painted. Another identical ribbon is cut into 4 equal pieces, and 2 pieces are painted. Are the painted amounts equivalent?

- A. Yes, both are $\frac{1}{2}$ D. No, the second ribbon has more painted
 B. Yes, both are $\frac{1}{4}$
 C. No, the first ribbon has more painted



8) What is $3 \times \frac{4}{6}$ in simplest form?

A. $\frac{7}{6}$

B. $\frac{4}{18}$

C. $1\frac{1}{6}$

D. $\frac{12}{6}$ or 2

9) A shape pattern uses triangles and dots arranged like this:



Figure 1



Figure 2



Figure 3

If the pattern continues, how many dots are in Figure 5?

A. 8

B. 14

C. 12

D. 10

10) A library counted 43,678 books. Estimate to the nearest ten thousand.

A. 40,000

B. 43,000

C. 44,000

D. 50,000

11) Which word problem matches $15 = 3 \times 5$?

A. Ana has 5 pencils. Ben has 3 times as many. How many does Ben have?

B. Ana has 5 pencils and Ben has 3 more. How many total?

C. Ana has 5 pencils. She gives away 3. How many left?

D. Ana and Ben have 15 pencils each.



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- 1) Two groups of students measured rope lengths. Group A: $\frac{1}{4}$ in, $\frac{1}{4}$ in, $\frac{2}{4}$ in. Group B: $\frac{2}{4}$ in, $\frac{2}{4}$ in, $\frac{3}{4}$ in. Which group has the longer total rope length?
- A. Group A C. Both groups are equal
 B. Group B D. Cannot determine
- 2) Jayden read $2\frac{1}{8}$ chapters in the morning, $3\frac{4}{8}$ chapters in the afternoon, and $1\frac{2}{8}$ chapters in the evening. How many chapters did he read in total?
- A. $6\frac{7}{8}$ chapters C. $6\frac{5}{8}$ chapters
 B. $6\frac{6}{8}$ chapters D. $7\frac{1}{8}$ chapters
- 3) Maria has 3 stickers. Sam has 2 times as many stickers as Maria. How many stickers does Sam have?
- A. 3 C. 4
 B. 5 D. 6
- 4) A clock hand rotates from 12 o'clock to 3 o'clock (a 90° rotation), then continues to rotate an additional 45° . What is the total angle of rotation?

- 5) Which is true?

- A. $\frac{8}{10} > \frac{90}{100}$ C. $\frac{8}{10} < \frac{50}{100}$
 B. $\frac{8}{10} = \frac{80}{100}$ D. $\frac{8}{10} = \frac{8}{100}$



6) Is 19 prime or composite?

- A. Both C. Neither
 B. Composite D. Prime

7) A regular polygon has 6 lines of symmetry. How many sides does it have?

8) A rectangle has a width of 4 inches. The perimeter is 28 inches. What is the length?

- A. 6 in C. 10 in
 B. 8 in D. 12 in

9) Which fraction equals $\frac{3}{4}$?

- A. $\frac{6}{8}$ C. $\frac{2}{5}$
 B. $\frac{6}{12}$ D. $\frac{5}{8}$

10) Sam found a mistake in his work. He wrote: $2 \times \frac{3}{5} = \frac{2}{3}$. What is the correct answer?

- A. $\frac{2}{3}$ C. $\frac{6}{5}$ or $1\frac{1}{5}$
 B. $\frac{5}{6}$ D. $\frac{2}{15}$

11) Add: $23,567 + 14,321 = ?$

- A. 37,888 C. 38,888
 B. 37,878 D. 37,788



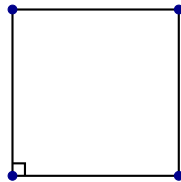
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- 1) Maya painted $\frac{6}{9}$ of her bedroom wall on Monday and $\frac{2}{9}$ on Tuesday. What fraction of the wall did she paint in total?

- 2) $\frac{\boxed{?}}{\boxed{20}}$
4 times

Jasmine has 20 stickers. Jasmine has 4 times as many stickers as her friend. How many stickers does her friend have?

- A. 4 C. 12
 B. 16 D. 5
- 3) How many right angles are shown in this figure?



- A. 1 right angle C. 3 right angles
 B. 2 right angles D. 4 right angles



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4) A bookstore sells 12 new books per day for 15 days. The store also has 18 older books on a display shelf. Not counting the older books, how many new books did the bookstore sell?

A. 120

C. 200

B. 198

D. 180 books

5) Write 0.56 as a fraction.

6) What is the standard form of $400,000 + 80,000 + 3,000 + 200 + 0 + 1$?

A. 483,021

C. 408,301

B. 483,210

D. 483,201

7) Round 55,555 to the nearest ten thousand.

A. 50,000

C. 56,000

B. 55,000

D. 60,000

8) A growing pyramid pattern is shown:



Figure 1

Figure 2

Figure 3

How many circles are in Figure 5?

A. 10

C. 15

B. 12

D. 18



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

- 1) **Choice D is correct.** (KY.4.NBT.1) Walk the rainbow! The pairs that multiply to 36 are (1, 36), (2, 18), (3, 12), (4, 9), (6, 6). Notice (6, 6) is special—it's a "square" pair where both factors are the same. Count: **5** pairs.
- 2) **Choice B is correct.** (KY.4.MD.6) The ray points to the 165° mark, which is 15° shy of the 180° straight angle. Since 165° is between 90° and 180° , it's obtuse. The answer is **165** degrees.
- 3) **Choice B is correct.** (KY.4.NF.5) A ribbon 0.75 meters long is $\frac{75}{100}$ of a meter (or three quarters of a meter).
- 4) **Choice B is correct.** (KY.4.G.2) Right angle markers are shown at two of the corners of the figure. These markers indicate that those two angles measure 90 degrees. The answer is **B**.
- 5) **Choice B is correct.** (KY.4.MD.1) Since 1 kilogram = 1,000 grams, multiply: $12 \times 1,000 = 12,000$ g. The answer is **12,000** g.
- 6) **The correct answer is 42.** (KY.4.MD.5) Noah's angle measures 42° , meaning it contains **42** one-degree angles.
- 7) **Choice A is correct.** (KY.4.NF.1) Ribbon 1: $\frac{1}{2}$ painted. Ribbon 2: $\frac{2}{4}$ painted—simplify to $\frac{2}{4} = \frac{1}{2}$. Same amount painted on both!
- 8) **Choice D is correct.** (KY.4.NF.4) We take 3 copies of $\frac{4}{6}$. Multiply: $3 \times \frac{4}{6} = \frac{3 \times 4}{6} = \frac{12}{6} = 2$. The answer is **2**.
- 9) **Choice D is correct.** (KY.4.NBT.1) Dots in each figure: Figure 1 has 2, Figure 2 has 4, Figure 3 has 6. Each time adds 2. Figure 5 has $6 + 2 + 2 = 10$ dots.
- 10) **Choice A is correct.** (KY.4.NBT.3) We're rounding to the nearest ten thousand. Look at the thousands digit: 3. Since $3 < 5$, we round DOWN to **40,000** books. ✓
- 11) **Choice A is correct.** (KY.4.OA.1) The equation $15 = 3 \times 5$ means 3 *groups of 5*. Choice A matches because Ben has 3 times as many as Ana's 5 pencils—exactly 3 groups of 5. The other choices use addition or subtraction.
- 12) **Choice C is correct.** (KY.4.NF.4) Six garden beds, each needing $\frac{2}{3}$ bag of soil, need $6 \times \frac{2}{3} = \frac{12}{3} = 4$ bags total.
- 13) **Choice D is correct.** (KY.4.NBT.5) Multiply by tens and ones: $9 \times (30 + 4) = 270 + 36 = 306$ points.
- 14) **Choice D is correct.** (KY.4.NBT.1) From the chart, the digit 5 is in the hundreds place. If moved to the thousands place, its value becomes $5 \times 1,000 = 5,000$. Answer: The **5**. ✓
- 15) **Choice A is correct.** (KY.4.NF.3) $\frac{3}{4}$ shows 3 shaded parts out of 4 equal parts. Since each part is $\frac{1}{4}$, we have $\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ —three unit fractions added.
- 16) **The correct answer is A, D.** (KY.4.MD.7) B is wrong ($125^\circ - 50^\circ = 75^\circ$). C is wrong ($360^\circ \div 4 = 90^\circ$). E is wrong ($90^\circ - 30^\circ = 60^\circ$).
- 17) **Choice C is correct.** (KY.4.G.1) Squares have 4 lines and regular hexagons have 6. Pentagons with 5 sides have 5 symmetry lines, and octagons with 8 sides have 8 lines. Circles win with infinitely many! The answer is A regular polygon with 5 or more sides or a circle.
- 18) **Choice B is correct.** (KY.4.NF.3) Subtract the wholes: $4 - 1 = 3$. Subtract the fractions: $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$. She used **$3\frac{2}{5}$** meters.
- 19) **Choice B is correct.** (KY.4.MD.5) This angle is acute because it has a small opening, smaller than a right angle (90 degrees).
- 20) **Choice D is correct.** (KY.4.NBT.1) From the chart: hundred-thousands: $2 \rightarrow 200,000$, ten-thousands: $1 \rightarrow 10,000$, thousands: $4 \rightarrow 4,000$, hundreds: $5 \rightarrow 500$, tens: $3 \rightarrow 30$, ones: $7 \rightarrow 7$ ✓
- 21) **Choice C is correct.** (KY.4.MD.5) From 12 to 9 going clockwise is three-quarters of the clock, which equals **270°** .
- 22) **Choice C is correct.** (KY.4.MD.2) The cafeteria used 6 gallons on Monday and 8 gallons on Tuesday. Add them: $6 + 8 = 14$ gallons. They used **14** gallons in total.
- 23) **Choice C is correct.** (KY.4.NF.5) The dot is at the third mark out of 10 equal marks, so it shows $\frac{3}{10}$.
- 24) **The correct answer is $\frac{7}{3}$.** (KY.4.NF.4) When we multiply $7 \times \frac{1}{3}$, we get 7 copies of $\frac{1}{3}$. This is written as the fraction $\frac{7}{3}$.
- 25) **The correct answer is $\frac{1}{4}$.** (KY.4.NF.1) Divide both numerator and denominator by their common factor 2: $\frac{2}{8} = \frac{1}{4}$.
- 26) **Choice C is correct.** (KY.4.MD.3) Multiply length by width: $6 \times 4 = 24$ sq cm.



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Hi, Hero!

◇ Once there was a Grade 4 student who took 10 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

Storyteller tip: on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

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

Jay Daie

Your Math Storyteller

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

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- ✓ Test Preparation

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