

8

FULL-LENGTH

Kentucky

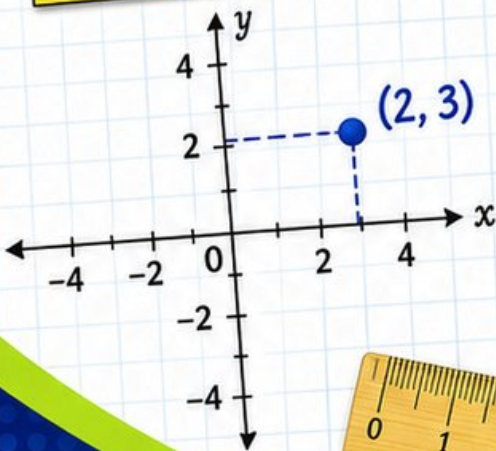
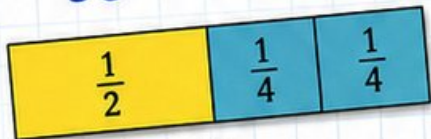
KSA

GRADE 5

MATH PRACTICE TESTS

Mixed Practice Questions with Answer Key
for Students, Parents, and Teachers

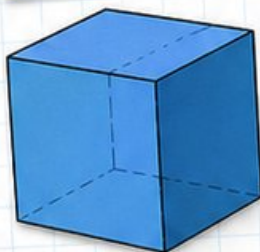
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

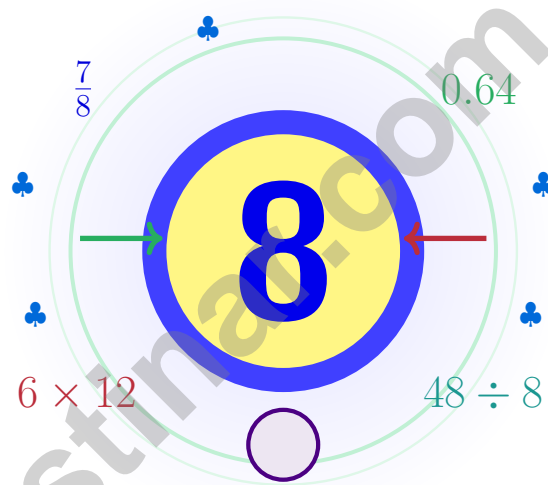
$$7 \times (12 - 5) = 49$$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



8 Kentucky KSA Grade 5 Math Practice Tests

A eight-step trail built for steady, brave thinking



Eight full tests, a focused quick review, and helpful support that turns Grade 5 practice in The Bluegrass State into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari



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Welcome to the Eight-Step Practice Path, Kentucky

This book is here to help you practice, reflect, and rise across eight tests

Trail Briefing for Kentucky Grade 5 Math Crew

This practice book is your steady companion for eight tests, not a place to be perfect. Math practice grows like bluegrass – slowly, beautifully, with deep roots that hold up through every season.

Use these eight tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up across seven rounds.

See

See the question fully before you start the math.

Plan

Pick a strategy that fits the numbers in front of you.

Build

Build the answer step by step, no shortcuts.

A strong habit for Kentucky mathematicians: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

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How to Use This Book

A simple routine that turns practice into progress

Step 1: Set Up

Pencil ready, distractions gone.
Spend a few minutes waking up your memory before the test begins.

Step 2: Work the Test

Take a full test like the real day.
Work in a calm spot and focus on careful thinking before speed.

Step 3: Look Back

Walk through your answers without rushing.
Circle missed questions and notice which topics keep showing up.

Step 4: Climb Higher

Pick one or two skills to sharpen next.
Read the explanation, repair the work, and bring that lesson into the next test.



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Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

Metric

1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

Customary

1 pound (lb) = 16 ounces (oz)

Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

TIME

1 minute (min) = 60 seconds (sec) 1 week = 7 days

1 hour (hr) = 60 minutes (min) 1 year = 12 months

1 day = 24 hours (hr) 1 year = 52 weeks



5) Find: $\frac{1}{6} \div 3$.

Record your answer in the space provided.

6) The value of $(6 + 9) \div 3$ is what fraction of the value of $(6 + 9)$?

Record your answer in the space provided.

7) Three measurements in millimeters: 45.506, 45.56, 45.065. Which is greatest?

A. 45.506

B. Equal

C. 45.065

D. 45.56



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- 1) Two race times: 12.306 seconds and 12.36 seconds. Which is faster?

Runner	Time
Runner A	12.306 s
Runner B	12.36 s

- A. Runner A
 B. Runner B
 C. Equal times
 D. Cannot determine
- 2) What is the y-coordinate of (0, 7)?

Record your answer in the space provided.

- 3) A pattern starts at 50 and subtracts 3 each step. What is the 10th term?
- A. 23
 B. 20
 C. 17
 D. 30
- 4) A recipe calls for $6\frac{2}{3}$ cups of flour. You have used $2\frac{1}{3}$ cups. How much flour is left?
- A. 4 cups
 B. $4\frac{1}{3}$ cups
 C. $4\frac{2}{3}$ cups
 D. 5 cups
- 5) Predict without calculating: Is $20 \times \frac{7}{8}$ greater than, less than, or equal to 20?
- A. Greater than 20
 B. Equal to 20
 C. Less than 20
 D. Impossible to tell



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1) A fabric store recorded sales: Monday \$12.34, Tuesday \$15.67, Wednesday \$18.92. What is the 3-day total?

A. \$46.83

B. \$47.93

C. \$47.03

D. \$46.93

2) Which is “the quotient of 36 and 4, increased by 9”?

A. $36 + 4 \div 9$

B. $36 \div (4 + 9)$

C. $9 + 36 \div (4 + 1)$

D. $(36 \div 4) + 9$

3) A prism has volume 60 cm^3 and base area 12 cm^2 . Find the height.

Record your answer in the space provided.



Grade 5 Mathematics Reference Materials

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Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice D is correct.** (KY.5.NBT.1) Multiplying 0.07 by 10 shifts the decimal point one place to the right: $0.07 \times 10 = 0.7$.
- Choice C is correct.** (KY.5.NBT.1) The plot shows 2 fish at 2 lbs, 3 fish at $2\frac{1}{4}$ lbs, 2 fish at $2\frac{1}{2}$ lbs, and 2 fish at $2\frac{3}{4}$ lbs. The total is $21\frac{1}{4}$ lbs.
- Choice A is correct.** (KY.5.MD.1) First convert 7 feet to inches: $7 \times 12 = 84$. Then add the extra 6 inches: $84 + 6 = 90$ inches.
- Choice C is correct.** (KY.5.NF.1) The numerator increased from 3 to 9 (multiply by 3). Multiply the denominator by 3: $5 \times 3 = 15$.
- The correct answer is $\frac{1}{18}$.** (KY.5.NF.1) $\frac{1}{6} \times \frac{1}{3} = \frac{1}{18}$.
- The correct answer is $\frac{1}{3}$.** (KY.5.NF.7) Dividing the whole amount (6 + 9) by 3 splits it into 3 equal parts. One part is $\frac{1}{3}$ of the original value.
- Choice D is correct.** (KY.5.OA.2) All have 45 ones. Tenths: 45.506 has 5, 45.56 has 5, 45.065 has 0. Between first two, hundredths: 45.506 has 0, 45.56 has 6. So $45.56 > 45.506 > 45.065$.
- Choice A is correct.** (KY.5.NF.4) Grid: $5 \times 6 = 30$ cells. Shaded (3 of 5 columns, 4 of 6 rows): $3 \times 4 = 12$ cells. Answer: $\frac{12}{30} = \frac{2}{5}$.
- The correct answer is 25000.** (KY.5.NBT.2) Multiplying by a power of 10 shifts the value to a larger place. $250 \times 100 = 25,000$ (attach two zeros). This confirms the answer.
- The correct answer is 6.78.** (KY.5.NBT.2) Subtracting with borrowing: $15.05 - 8.27 = 6.78$.
- Choice C is correct.** (KY.5.NBT.4) Multiplying by 1,000 moves the decimal three places right: $1.2 \rightarrow 12 \rightarrow 120 \rightarrow 1,200$.
- Choice B is correct.** (KY.5.NBT.2) $12 \times \frac{1}{6} = \frac{12}{6} = 2$.
- The correct answer is about 1.** (KY.5.NF.4) $\frac{11}{12} \approx 1$ and $\frac{1}{8} \approx 0$, so the estimate is about 1. Accept reasonable estimates close to 1, such as $\frac{9}{10}$, 0.9, or 1.
- Choice B is correct.** (KY.5.NF.6) A rhombus is a quadrilateral with all four sides equal. This figure has that attribute and does not show four right angles, so the most specific name is rhombus.
- Choice C is correct.** (KY.5.OA.1) Start with the part in parentheses: $4 + 5 = 9$. Now multiply the result by 2: $9 \times 2 = 18$. Nice careful grouping gives answer C.
- Choice C is correct.** (KY.5.NF.3) $\frac{1}{4} + \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$. Both ate equal amounts, so together they ate half the bar.
- Choice A is correct.** (KY.5.NF.1) $\frac{1}{2}$ and $\frac{2}{3}$ have different denominators. With LCD 6: $\frac{1}{2} = \frac{3}{6} \neq \frac{4}{6} = \frac{2}{3}$.
- Choice C is correct.** (KY.5.MD.5) Add: $8.75 + 10.25 + 7.5 = 26.50$ kilometers.
- Choice C is correct.** (KY.5.MD.3) Find each part first: Prism A is $8 \times 2 \times 4 = 64$ cubic feet, and Prism B is $3 \times 5 \times 4 = 60$ cubic feet. Because the parts do not overlap, add them: $64 + 60 = 124$ cubic feet.
- Choices A, B are correct.** (KY.5.NBT.5) $27 \times 46 = 1242$ and $54 \times 23 = 1242$. The other products are $42 \times 30 = 1260$ and $18 \times 72 = 1296$.
- Choice C is correct.** (KY.5.MD.2) There are four ribbons at $\frac{3}{4}$ inch. Their total length is $4 \times \frac{3}{4} = 3$ inches.
- Choice B is correct.** (KY.5.NBT.4) Add hundredths and tenths carefully: $3.87 + 4.92 = 8.79$.
- Choice B is correct.** (KY.5.NBT.4) $0.7 \times 0.8 = 0.56$. When multiplying two decimals both less than 1, the product is smaller than either factor.
- Choice C is correct.** (KY.5.NBT.4) The tenths digit is 6 and the hundredths digit is 5. Since $5 \geq 5$, round the tenths digit up: $6 \rightarrow 7$, giving 98.7°F .
- Choice D is correct.** (KY.5.NBT.4) To convert meters to centimeters, multiply by 100: $1.5 \times 100 = 150$ cm.
- Choice A is correct.** (KY.5.NBT.3) "Seven and twenty-four hundredths" means 7 whole units and 24 hundredths: 7.24.
- Choice B is correct.** (KY.5.NBT.3) Doubling means multiplying by 2. If the input is 5, then the output is $2 \times 5 = 10$.



From Your Math Family

Dear Member of the Math Family,

◇ Welcome to a special note from your math family. You finished 8 full practice tests, and that hard work matters more than any single score. We see you. We're proud of you. ◇

★ **What our math family knows:** math is a journey, not a one-time event. You've taken many steps already. The test is just one stop on a much longer path. Every skill you've built is yours forever. ★

What Your Math Family Sees

- **Effort:** STRONG! You showed up again and again.
- **Growth:** REAL! You can solve problems today you couldn't before.
- **Courage:** BRIGHT! You faced hard problems with brave thinking.
- **Future:** BIG! Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You're not alone. Your math family is with you. Now go show what you've learned.

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie

Your Math Family (Always With You)

$45 \div 5 = ?$

PRACTICE TODAY.

$\frac{3}{5} + \frac{1}{10} = ?$



ACHIEVE TOMORROW!



$3^2 + 4^2 = 25$

This book includes **8** full-length **Grade 5** math practice tests to help students master essential skills, build confidence, and achieve success. Each test is carefully designed to reflect real math standards and cover a variety of question types with detailed answer explanations.

$7x - 4 = 17$

$1\frac{1}{2} + 2\frac{1}{3} = ?$

8 FULL-LENGTH MATH PRACTICE TESTS



REALISTIC PRACTICE

Tests mirror Grade 5 math standards and real assessment formats.



ANSWER KEY INCLUDED

Detailed answer explanations help students understand and learn.



BUILD CONFIDENCE & SKILLS

Strengthens problem-solving abilities and reinforces key math concepts.



IMPROVE & TRACK PROGRESS

Identify strengths and focus on areas that need improvement.



ACHIEVE SUCCESS

Boosts test readiness and helps students achieve their best results.

COVERS ALL KEY GRADE 5 MATH TOPICS

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis

...and More!



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for more Grade 5 math resources and practice materials!



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Practice with purpose. Succeed with confidence!