

7

Kentucky

KSA

GRADE 5

MATHEMATICS

PRACTICE TESTS

✓
PRACTICE
PREPARE
SUCCEED

★★★

Comprehensive Standards-Aligned
Review for Strong Grade 5
Math Performance



$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$

$$2.4 + 1.6 = 4.0$$

$$A = \frac{bh}{2}$$



**7 FULL-LENGTH
PRACTICE TESTS**

Realistic style
questions



**STANDARDS-
ALIGNED**

Covers all Grade 5
standards



BUILD CONFIDENCE

Target weak areas
and improve
performance



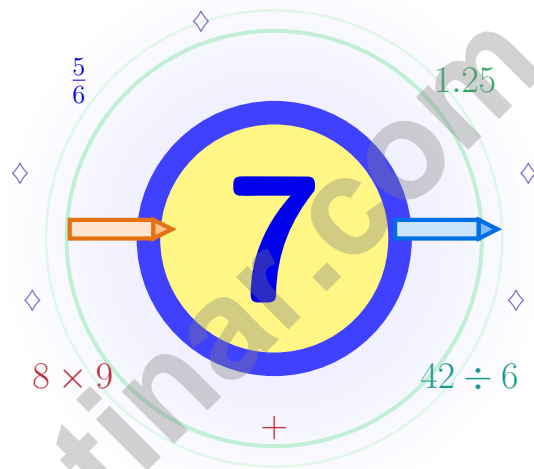
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. **SUCCEED** FOREVER. ★

7 Kentucky KSA Grade 5 Math Practice Tests

A seven-step trail built for steady, brave thinking



Seven full tests, a concise 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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Seven-Step Math Adventure, Kentucky

Seven chances to grow your math mind one careful step at a time

Kentucky Grade 5: This Trail Is for You

This practice book is your steady companion for seven 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 seven 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.

Watch

Watch what the problem actually wants from you.

Choose

Choose the operation, model, or table that fits.

Polish

Check labels, units, and the final word of the question.

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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Seven Steps, One Routine

A simple routine that turns practice into progress

Step 1: Open

Open the warm-up review and use it.

Spend a few minutes waking up your memory before the test begins.

Step 2: Test

Take the test with steady focus.

Work in a calm spot and focus on careful thinking before speed.

Step 3: Reflect

Notice what was sharp and what was shaky.

Circle missed questions and notice which topics keep showing up.

Step 4: Sharpen

Practice the shaky skills before the next round.

Read the explanation, repair the work, and bring that lesson into the next test.

A Good 7-Week Kentucky Rhythm

Week 1	Take Test 1 and let your math grow deep roots.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and lift fraction and decimal work.
Week 4	Take Test 4 and pay close attention to labels and units.
Week 5	Take Test 5 and compare your habits with your first test.
Week 6	Take Test 6 and practice staying calm during tricky questions.
Week 7	Take Test 7 with patient, kind, focused work.



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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)

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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



1) Compare: 7.4×10 and 74×1 . Which is true?

A. $7.4 \times 10 < 74 \times 1$

C. $7.4 \times 10 > 74 \times 1$

B. $7.4 \times 10 = 74 \times 1$

D. Cannot compare

2) Compare: $7 \times (40 - 10)$ $7 \times 40 - 7 \times 10$

A. $>$

C. $=$

B. $<$

D. Cannot tell

3) Use the diagram to find how many feet are in 2 yards.



A. 2 feet

C. 5 feet

B. 4 feet

D. 6 feet

4) A school receives 7,200 pencils. They distribute them equally among 100 students. How many pencils does each student get?

A. 0.72

C. 72

B. 7.2

D. 720

5) If a rectangular prism measures $9 \text{ m} \times 5 \text{ m} \times 4 \text{ m}$, what is its volume?

A. 160 m^3

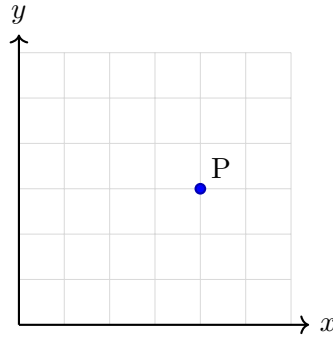
C. 200 m^3

B. 170 m^3

D. 180 m^3



- 6) Point P is shown inside Quadrant I, not on an axis. How many of its coordinates are positive?



Record your answer in the space provided.

- 7) A recipe calls for $(6 \div 2) \times 4$ cups of sugar. Which best describes this?
- A. Divide 6 by 2, then multiply the result by 4
 - B. Divide 6 by 2, then multiply by the sum 4
 - C. Multiply 6 and 4, then divide by 2
 - D. Divide 6 into 4 groups of 2
- 8) Which expression correctly shows how to find $\frac{1}{6}$ divided by 4?
- A. $\frac{1}{6} \times 4$
 - B. $\frac{1}{6} \times \frac{1}{4}$
 - C. $\frac{1}{6} + 4$
 - D. $4 \div \frac{1}{6}$



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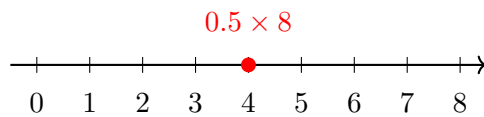
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- 1) A number line shows where a product lands. What point represents 0.5×8 ?



- A. 2 C. 4
 B. 3 D. 5
- 2) A place-value chart with colored columns shows:

Ones	Tenths	Hundredths	Thousandths
2	7	8	1

Which shows the expanded form?

- A. $2 + 7 + 8 + 1$ C. $2 + 0.7 + 0.08 + 0.001$
 B. $20 + 0.7 + 0.8 + 0.1$ D. $2000 + 700 + 80 + 1$
- 3) How many zeros are in the product 20×50 ?

- A. 1 C. 3
 B. 2 D. 4



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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

- 1) **Choice B is correct.** (KY.5.NBT.2) $7.4 \times 10 = 74$ and $74 \times 1 = 74$, so they are equal.
- 2) **Choice C is correct.** (KY.5.OA.2) The distributive property works with subtraction too: 7 times the difference $40 - 10$ equals $7 \times 40 - 7 \times 10$.
- 3) **Choice D is correct.** (KY.5.MD.1) Since 1 yard = 3 feet, multiply 2 by 3: $2 \times 3 = 6$ feet.
- 4) **Choice C is correct.** (KY.5.NBT.2) Dividing by a power of 10 shifts the value to a smaller place. $7,200 \div 100 = 72$ pencils per student. This confirms the answer.
- 5) **Choice D is correct.** (KY.5.MD.4) Volume = $9 \times 5 \times 4 = 45 \times 4 = 180 \text{ m}^3$.
- 6) **The correct answer is 2.** (KY.5.G.1) Point P is inside Quadrant I, so its x-coordinate and y-coordinate are both positive. Points on an axis can have a 0 coordinate, but this point is not on an axis.
- 7) **Choice A is correct.** (KY.5.OA.2) The parentheses tell us to divide 6 by 2 first. Then the result is multiplied by 4, matching choice A.
- 8) **Choice B is correct.** (KY.5.NF.7) Dividing by a whole number means multiplying by its reciprocal: $\frac{1}{6} \div 4 = \frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$.
- 9) **The correct answer is 4.** (KY.5.G.4) A square is a quadrilateral, a rectangle, a rhombus, and a parallelogram.
- 10) **Choice A is correct.** (KY.5.G.3) A quadrilateral with two pairs of parallel sides and four right angles is a rectangle. Since the sides are not all the same length, it is not a square.
- 11) **Choice A is correct.** (KY.5.NF.4) There are 5 aprons, and each apron needs $3\frac{1}{2}$ yards. Multiply: $5 \times 3\frac{1}{2} = 5 \times \frac{7}{2} = \frac{35}{2} = 17\frac{1}{2}$ yards.
- 12) **Choice A is correct.** (KY.5.MD.5) The overlap region has 2 shaded squares out of 20 total squares, giving $\frac{1}{4} \times \frac{2}{5} = \frac{2}{20} = \frac{1}{10}$.
- 13) **Choice D is correct.** (KY.5.NF.6) $9\frac{2}{3} \approx 10$ and $6\frac{8}{9} \approx 7$. So $9\frac{2}{3} - 6\frac{8}{9} \approx 10 - 7 = 3$.
- 14) **Choice C is correct.** (KY.5.NF.2) Add the flower heights shown by the line plot: $(6 \times 3) + (8 \times 2) + (10 \times 2) + (12 \times 3) = 18 + 16 + 20 + 36 = 90$ inches.
- 15) **Choice C is correct.** (KY.5.OA.3) Differences: 1, 2, 3, 4, so next difference is 5: $11 + 5 = 16$.
- 16) **Choice A is correct.** (KY.5.NF.4) Making $\frac{3}{4}$ of the recipe means finding $\frac{3}{4}$ of $\frac{1}{4}$ cup. Multiply: $\frac{3}{4} \times \frac{1}{4} = \frac{3}{16}$ cup.
- 17) **Choice C is correct.** (KY.5.NBT.1) 0.005 has the digit 5 in the thousandths place, so it is read as “five thousandths.”
- 18) **Choices A, B are correct.** (KY.5.G.4) Every triangle has exactly 3 sides and 3 vertices. Some triangles have a right angle, but many triangles do not.
- 19) **Choice C is correct.** (KY.5.NBT.2) $2.5 \times 8 = 20$. Multiply: $25 \times 8 = 200$, then place decimal one place from right: $20.0 = 20$ yards.
- 20) **Choice B is correct.** (KY.5.MD.1) Total grams: $30 \times 10 = 300$ g. Convert: $300 \div 1000 = 0.3$ kg.
- 21) **Choice B is correct.** (KY.5.MD.5) The base area is $20 \times 8 = 160$ square meters. Since $800 \div 160 = 5$, the height is 5 m.
- 22) **Choice C is correct.** (KY.5.NF.3) Use total amount divided by the size of one piece. The equation is $12 \div \frac{1}{3} = n$.
- 23) **The correct answer is 20 pages.** (KY.5.G.2) The x-coordinate shows minutes, and the y-coordinate shows pages. So (10, 20) means 10 minutes and 20 pages.
- 24) **Choice D is correct.** (KY.5.NF.6) He needs $\frac{3}{5}$ of $\frac{2}{3}$ cup, so multiply: $\frac{3}{5} \times \frac{2}{3} = \frac{6}{15}$, which simplifies to $\frac{2}{5}$ cup.
- 25) **Choice B is correct.** (KY.5.NF.1) Student A’s bar is correctly labeled: 1 part out of 3 is $\frac{1}{3}$. Student B filled in 1.5 parts out of 3, which equals $\frac{1}{2}$, not $\frac{2}{3}$. To show $\frac{2}{3}$, you need 2 out of 3 parts filled.
- 26) **Choice A is correct.** (KY.5.NF.4) $4 \times \frac{5}{3} = \frac{20}{3}$. The other products are not equal to $\frac{20}{3}$.
- 27) **The correct answer is 18.** (KY.5.NF.7) Each whole has 3 one-third pieces. Six wholes have $6 \times 3 = 18$ one-third pieces, so the quotient is 18.
- 28) **Choice D is correct.** (KY.5.NBT.2) $23 \times 10 = 230$, then $230 \times 10 = 2300$. Or $23 \times 10^2 = 2300$.
- 29) **Choice A is correct.** (KY.5.MD.4) The base area is $12 \times 7 = 84$ square centimeters. Since $420 \div 84 = 5$, the height is 5 cm.



Strong Finish

Hello, Math Star!

★ Seven practice tests later, you've built real math confidence. Confidence means you can face a problem, stay calm, and keep working until you understand it. ★

◇ **That's what a strong finish looks like:** careful reading, smart strategies, and steady effort from start to end. ◇

Finish Like a Pro

- **Pace yourself:** don't rush the first half.
- **Use scratch work:** write steps clearly.
- **Save time:** leave a few minutes to review.
- **Fix small errors:** check signs, units, and place value.

I'm proud of your effort. Keep that same steady focus on test day.

You can reach me at reza@testinar.com.

Reza Nazari & Jay Daie

Your Math Coaches (Finish Strong)

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PRACTICE TODAY. PERFORM TOMORROW.

Success in math starts with practice! This book provides the **practice, confidence, and skills** your child needs to excel on the Grade 5 Math test and beyond.

KEY BENEFITS:



TARGETED PRACTICE

Focus on the most important Grade 5 math skills.



STANDARD-ALIGNED

All tests align with state standards for Grade 5.



BUILD CONFIDENCE

Strengthen skills, reduce test anxiety, and boost confidence.



IMPROVE PERFORMANCE

Timed practice helps improve speed and accuracy.



ACHIEVE SUCCESS

Develop strong test-taking skills and achieve your best score!

PERFECT FOR:

✓ Classroom Practice

✓ Homework Help

✓ Test Preparation

✓ Summer Learning

✓ On-the-Go Practice

✓
PRACTICE
PREPARE
SUCCEED



STRONG SKILLS. BRIGHT FUTURE.

Give your child the tools they need to succeed in math and in life!



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TRUSTED
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Quality resources you can trust.



DESIGNED
FOR SUCCESS

Proven practice for real results.



SUPPORT
YOUR CHILD

Every step of the way.