

4 Kentucky KSA

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

**PRINTED
TESTS**



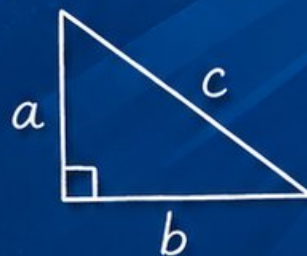
2

**ONLINE
TESTS**



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



**USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.**

4 Kentucky KSA Grade 6 Math Practice Tests

Standards-Aligned Bluegrass Practice Stamina for Kentucky Summative Assessment



Four complete 40-question Grade 6 practice rounds for KSA, built for bluegrass practice stamina with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Kentucky Math Explorer!

Four focused rounds using bluegrass practice stamina

This book gives you four full Grade 6 practice tests for KSA. Each round uses rolling hills, race-day focus, and careful step checks as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Kentucky Practice Promise

Pace the work like a long race: start carefully, keep notes neat, and finish with a check.

Read

Plan

Check

How to Use This Book

A four-session routine for bluegrass practice stamina

1. **Work in order.** Take one 40-question test at a time in a quiet place.
2. **Preview the skills.** Scan the quick review pages before beginning the first round.
3. **Correct actively.** Retry missed items before reading the full explanation.
4. **Mark confidence.** Put a small star beside problems where your plan felt strong.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Kentucky review rhythm: Run one test, study the missed turns, and use the next round to improve your pace.



What Is Inside?

Four KSA tests, 160 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Bluegrass practice stamina means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.

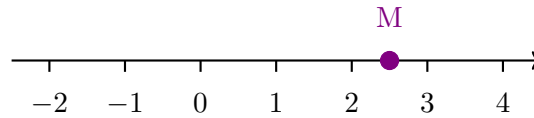


Scan me!
For more practice
& answers

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- 5) The number line below shows tick marks at each integer. Point M is marked on the line. What is the coordinate of point M?



- A. 2.5 C. 2
 B. 2.25 D. 3
- 6) A company sells 480 products in one month. If 25% of the sales were online, how many products were sold online?

- 7) In which quadrant would the point $(-6, -8)$ be located?

- A. Quadrant I C. Quadrant III
 B. Quadrant II D. Quadrant IV

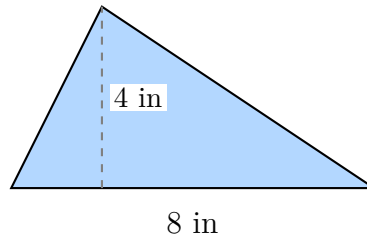
- 8) Which list shows the numbers in order from least to greatest?

$-2.5, \frac{1}{4}, -3, 1.75$

- A. $-3, -2.5, \frac{1}{4}, 1.75$ C. $-2.5, -3, \frac{1}{4}, 1.75$
 B. $\frac{1}{4}, 1.75, -2.5, -3$ D. $1.75, \frac{1}{4}, -2.5, -3$



9) A triangle has a base of 8 inches and a height of 4 inches. What is its area?



- A. 12 in^2 C. 32 in^2
 B. 64 in^2 D. 16 in^2
- 10) Which statement correctly identifies the height of a parallelogram?
- A. The height is the length of one of the slanted sides. C. The height is the same as the longer base.
 B. The height is the perpendicular distance between two parallel sides. D. The height is always equal to one side length.
- 11) Find the volume of a rectangular prism with length 8 ft, width $\frac{3}{4}$ ft, and height 5 ft.
- A. 12 ft^3 C. 30 ft^3
 B. 20 ft^3 D. 40 ft^3



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1) A graph shows earnings from mowing lawns. The relationship is linear, and the point (3, 45) is on the line. If the origin (0, 0) is also on the line, what is the constant rate of pay per lawn?

- A. \$12 per lawn C. \$20 per lawn
 B. \$15 per lawn D. \$45 per lawn

2) Rewrite the question to make it statistical:

Original: "How fast is my car?"

- A. What color is my car? C. How fast do different cars in the parking lot go?
 B. How many cars are in the parking lot? D. What brand is my car?

3) A histogram of test scores is skewed right. Which is most likely true?

- A. The mean is much less than the median. C. The mean is much greater than the median.
 B. The mean equals the median. D. The mode equals the mean.

4) A bag of letter tiles contains 5 A's, 3 E's, and 2 I's. If one tile is drawn at random, what is the probability that it is **not** an A?

- A. $\frac{1}{10}$ C. $\frac{3}{5}$
 B. $\frac{1}{2}$ D. $\frac{5}{10}$



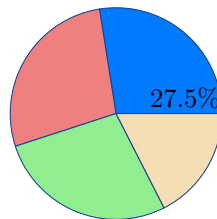
- 5) A circular swimming pool has a diameter of 20 feet. Using $\pi \approx 3.14$, find the approximate area of the pool.

- 6) A weather station records daily humidity (as a percent):

Stem	Leaf
5	8, 9
6	1, 2, 5, 7
7	0, 3, 8
8	2, 5, 9

Approximately what percent of readings were between 60% and 79%?

- A. 40% C. 60%
- B. 50% D. 70%



7)

A survey asked 360 people about favorite season. The circle graph shows 27.5% prefer summer. How many people prefer summer?

- A. 99 C. 108
- B. 90 D. 117



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1) Which expression is equivalent to $4(3x + 2)$?

A. $12x + 2$

C. $3x + 8$

B. $7x + 6$

D. $12x + 8$

2) Find the sum: $0.75 + 1.4 + 2.1$

A. 3.15

C. 4.35

B. 4.25

D. 4.15

3) Find the LCM of 5 and 9.

A. 45

C. 40

B. 35

D. 15

4) Which option correctly identifies all expressions shown that are equivalent to $40 + 24$?

A. $8(5 + 3)$

C. $2(20 + 12)$

B. $4(10 + 6)$

D. All of the above

5) A city is at an elevation of 2050 feet above sea level. Its opposite elevation would be:

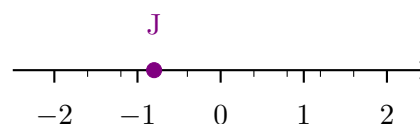
A. -2050 feet

C. 2050 feet

B. $|2050|$ feet

D. 4100 feet

6) The number line below shows fractional tick marks between consecutive integers. What is the coordinate of point J?



A. $-\frac{4}{5}$

C. $-\frac{1}{5}$

B. $-\frac{3}{5}$

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



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7) Which point is on the negative y -axis?

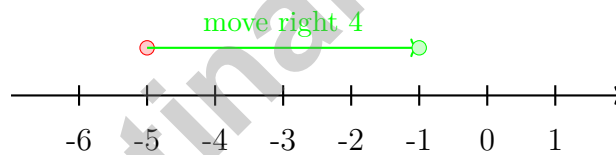
- A. $(0, -7)$ C. $(7, 0)$
 B. $(-7, 0)$ D. $(0, 7)$

8)

Player	Score
Alice	8
Bob	-3
Carol	5
David	-1

Who has the lowest score?

- A. Alice C. Carol
 B. David D. Bob
- 9) Which number line correctly shows $-5 - (-4) = -1$?



Correct model: Start at -5 , move right 4 units to -1 .

- A. Model shown is correct C. Model should start at 0
 B. Model should move left instead D. Model should end at -9
- 10) Find the area of a triangle with vertices forming an obtuse angle, base 13 m, and perpendicular height 6 m.
- A. 19 m^2 C. 78 m^2
 B. 39 m^2 D. 156 m^2



Kentucky KSA Practice Test Answer Keys

How to use this Kentucky KSA answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to bluegrass practice stamina
3. rework the problem before reading the full explanation, using this reminder:
Pace the work like a long race: start carefully, keep notes neat, and finish with a check.

A calm Kentucky correction routine turns every missed item into useful practice. Run one test, study the missed turns, and use the next round to improve your pace.



Kentucky Practice Test Answers and Explanations

Review the four printed KSA tests with paced, thoughtful, and ready for the next stretch habits.

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (KY.6.G.3) Length = $7 - 1 = 6$ units; width = $4 - 1 = 3$ units. Perimeter = $2(6 + 3) = 18$ units.
- 2) **Choice A is correct.** (KY.6.NS.5) A profit of \$500 is +500 and a loss of \$200 is -200. The total change is $500 + (-200) = 300$.
- 3) **Choice C is correct.** (KY.6.SP.4) From -6 to 6 is $6 - (-6) = 6 + 6 = 12$ units apart.
- 4) **The correct answer is 37.5%.** (KY.6.NS.1) $\frac{3}{8} = 0.375$, and $0.375 \times 100 = 37.5\%$.
- 5) **Choice A is correct.** (KY.6.EE.8) Point M is halfway between 2 and 3, which is 2.5 or $2\frac{1}{2}$.
- 6) **The correct answer is 120.** (KY.6.RP.3) 25% of 480 = $0.25 \times 480 = 120$ products were sold online.
- 7) **Choice C is correct.** (KY.6.NS.8) Both the x -coordinate and y -coordinate are negative, so the point is in Quadrant III (lower left).
- 8) **Choice A is correct.** (KY.6.NS.7) On a number line, more negative numbers are less. $-3 < -2.5 < 0 < \frac{1}{4} < 1.75$.
- 9) **Choice D is correct.** (KY.6.G.1) Using $A = \frac{1}{2}bh$, we get $A = \frac{1}{2} \times 8 \times 4 = 16 \text{ in}^2$.
- 10) **Choice B is correct.** (KY.6.G.1) The height must be perpendicular to the base, not just any side length.
- 11) **Choice C is correct.** (KY.6.G.2) $V = 8 \times 0.75 \times 5 = 6 \times 5 = 30 \text{ ft}^3$.
- 12) **Choice D is correct.** (KY.6.G.1) Width: $9 - 3 = 6$ units. Height: $5 - 2 = 3$ units. Area = $6 \times 3 = 18$ square units.
- 13) **Choice D is correct.** (KY.6.NS.8) Same x -coordinate (-4): $|4 - 1| = 3$ units.
- 14) **Choice C is correct.** (KY.6.EE.6) Selling means subtract from the total: $f - 25$ fish remain.
- 15) **Choice A is correct.** (KY.6.SP.2) Plot A forms a triangle shape with a peak in the middle (at 3), with equal tails on both sides. Plot B has outliers on the right, making it skewed right.
- 16) **The correct answer is 32.** (KY.6.RP.3) Unit cost: $8 \div \frac{1}{4} = 8 \times 4 = 32$ dollars per gallon.
- 17) **Choice A is correct.** (KY.6.SP.2) The student only added; the mean requires dividing by the count: $\frac{30}{3} = 10$.
- 18) **Choice D is correct.** (KY.6.EE.9) Entertainment is 15% of the budget. 15% of \$1000 = $0.15 \times 1000 = \$150$.
- 19) **Choice B is correct.** (KY.6.RP.3) A proportional relationship has a constant ratio between variables. Its graph is a straight line through the origin, and the constant ratio is the constant of proportionality.
- 20) **Choice C is correct.** (KY.6.EE.2) Total savings: $\$12 \times 6 = \72 .
- 21) **The correct answer is The constant of proportionality is 4, and the cost per unit is \$4.** (KY.6.NS.6) A is correct because $k = \frac{8}{2} = 4$. B is correct because the cost per unit is \$4. The equation is $y = 4x$, so Choice C is false; Choice D is false because the graph passes through (0, 0); Choice E gives the wrong unit rate.
- 22) **Choice C is correct.** (KY.6.RP.3) Use the scale: 3 inches \times 8 feet/inch = 24 feet.
- 23) **Choice B is correct.** (KY.6.NS.1) Rewrite $1\frac{1}{4}$ as $\frac{5}{4}$, then multiply by the reciprocal $\frac{6}{5}$: $\frac{5}{4} \times \frac{6}{5} = \frac{30}{20} = \frac{3}{2}$. Student A's $\frac{15}{20}$ simplifies to $\frac{3}{4}$, which doesn't match.
- 24) **Choice A is correct.** (KY.6.NS.3) Divide: $2.4 \div 4 = 0.6$ meters. Each piece is 0.6 meters long.
- 25) **Choice A is correct.** (KY.6.NS.4) $48 = 16 \times 3 = 2 \times 2 \times 2 \times 2 \times 3 = 2^4 \times 3$. Option B uses composite 6; C and D use composite factors.
- 26) **Choice B is correct.** (KY.6.NS.4) A adds to 47 vs 48 on the expanded side—close call but not equal. B matches term by term (18 + 42). C wrongly lists 27 + 10 instead of 27 + 15, and D shortchanges 2×6 .
- 27) **Choice A is correct.** (KY.6.NS.3) Starting floor: 8. Descending 11 floors: $8 + (-11) = -3$.



Scan me!
For more practice
& answers

Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 4 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

Perfect for classroom use, homework, test preparation, and extra practice at home.

THIS BOOK INCLUDES:

4 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations

 **MORE PRACTICE.
GREATER RESULTS.**

Give your child the tools to build strong math skills, confidence, and a positive attitude toward learning.

WHAT YOU'LL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ And More!



2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.



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