

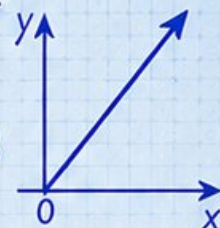
3 Kentucky KSA

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

$$y = 2x + 3$$



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

$$36\% \text{ of } 150 = ?$$



3 | PRINTED
TESTS



2 | ONLINE
TESTS



Build
Confidence



Master Key
Math Skills



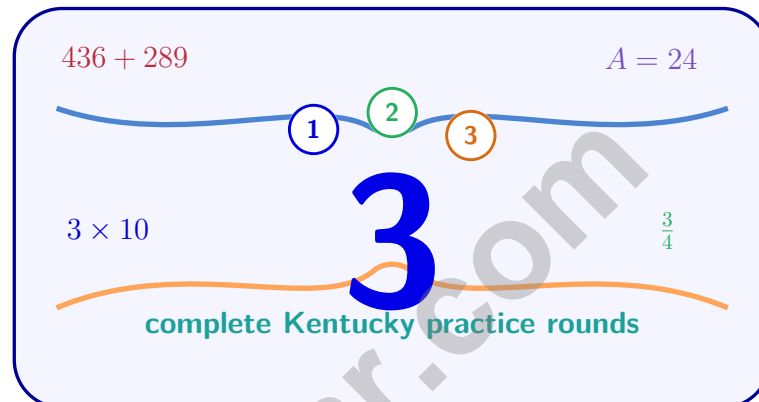
Answer Explanations
for Every Question



Test-Taking
Strategies That Work

3 Kentucky KSA Grade 6 Math Practice Tests

Standards-Aligned Bluegrass Practice Stamina for Kentucky Summative Assessment



Three 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!

Three focused rounds using bluegrass practice stamina

This book gives you three 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 three-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?

Three KSA tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
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

Table of Contents

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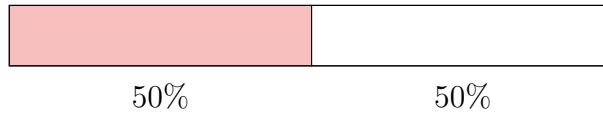
1) What is the mode of: 1, 2, 2, 3, 3, 3, 4?

A. 3

C. 1

B. 2

D. 4



2)

Total: 160 items

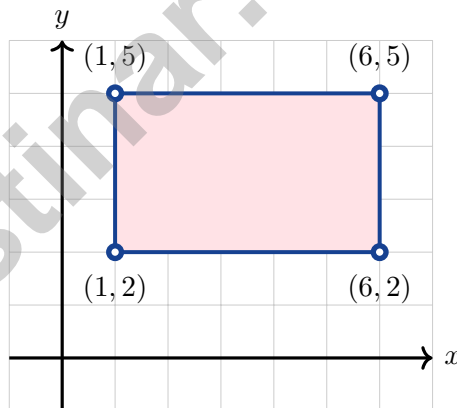
The shaded portion represents apples. How many apples are there?

A. 40

C. 80

B. 60

D. 100



3)

A rectangle has vertices at (1, 2), (6, 2), (6, 5), and (1, 5). What is the perimeter?

A. 14 units

C. 18 units

B. 16 units

D. 20 units



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& answers

4) Data Set A: 5, 6, 7, 8, 9 (Mean = 7, Median = 7) Data Set B: 1, 5, 7, 8, 24 (Mean = 9, Median = 7) Which statement is true?

- A. Set A is more skewed
 B. Set B has a larger outlier
 C. The means are equal
 D. Set A has a larger outlier

5) A student created this ratio table about babysitting rates:

Hours	Dollars Earned
2	24
4	48
6	72

If the student plots (0, 0), (2, 24), (4, 48), and (6, 72) on a coordinate plane, which statement about the points is true?

- A. The points form a vertical line
 B. The points form a diagonal line through the origin
 C. The points form a horizontal line
 D. The points do not form a straight line

6) Express 25% as a fraction in simplest form.

- A. $\frac{1}{4}$
 B. $\frac{25}{100}$
 C. $\frac{1}{25}$
 D. $\frac{25}{75}$

7) A car travels 120 miles in 2 hours. At the same rate, how far will it travel in 5 hours?

- A. 240 miles
 B. 300 miles
 C. 360 miles
 D. 420 miles



8) A jewelry maker has 0.75 kilograms of silver. How many grams of silver does she have?

A. 7.5 grams

C. 750 grams

B. 75 grams

D. 7,500 grams

9) Alex saves \$100 from a \$500 income. Jordan saves \$75 from a \$400 income. Who saves a higher percentage of income?

A. Alex at 20%

C. Jordan at 18.75%

B. Alex at 25%

D. Jordan at 25%

10) A company tracks its website visits. The table shows:

Days	1	2	3
Visits	100	200	300

A marketing director says the relationship is proportional because the number of visits increases by 100 each day. Which statement correctly evaluates the relationship?

A. Yes; constant increase means proportional

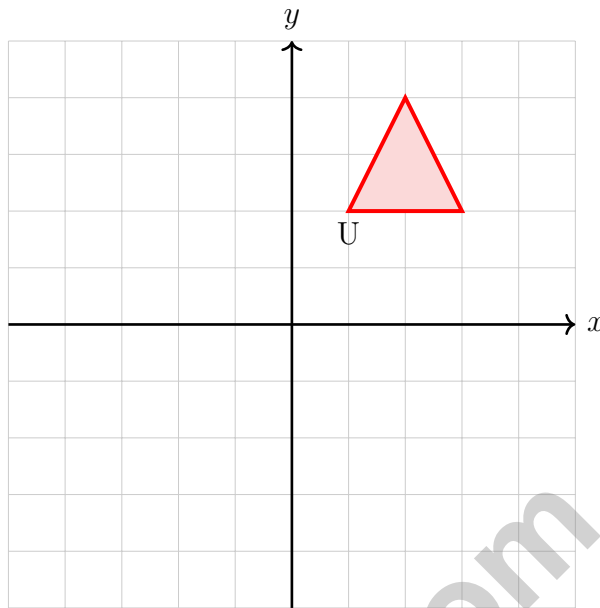
C. Yes; the ratio visits/days is 100 each day

B. No; the relationship must also pass through the origin

D. No; visits are always too large



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& answers

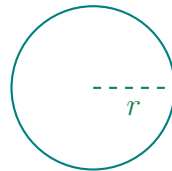


3)

A triangle has vertices at $(1, 2)$, $(3, 2)$, and $(2, 4)$. If it is reflected over the x -axis, what will be the image of $(1, 2)$?

- A. $(1, -2)$
- B. $(-1, 2)$
- C. $(1, 2)$
- D. $(-1, -2)$

Circle: $r = 9$ ft



4)

A circle has a radius of 9 feet. Using $\pi \approx 3.14$, which is closest to the area?

- A. 56.52 ft^2
- B. 113.04 ft^2
- C. 254.34 ft^2
- D. 508.68 ft^2

1) What is $9,360 \div 48$?

A. 195

C. 205

B. 200

D. 210

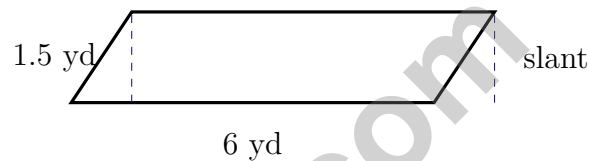
2) If you need a triangle with area 120 m^2 and height 15 m, what base is required?

A. 8 m

C. 20 m

B. 30 m

D. 16 m



3)

A parallelogram has a base of 6 yd and height of 1.5 yd. What is its area?

A. 4.5 yd^2

C. 9 yd^2

B. 7.5 yd^2

D. 15 yd^2

4) A rectangular prism has base dimensions 3.5 ft and 2 ft. If its volume is 28 ft^3 , what is the height?

A. 2 ft

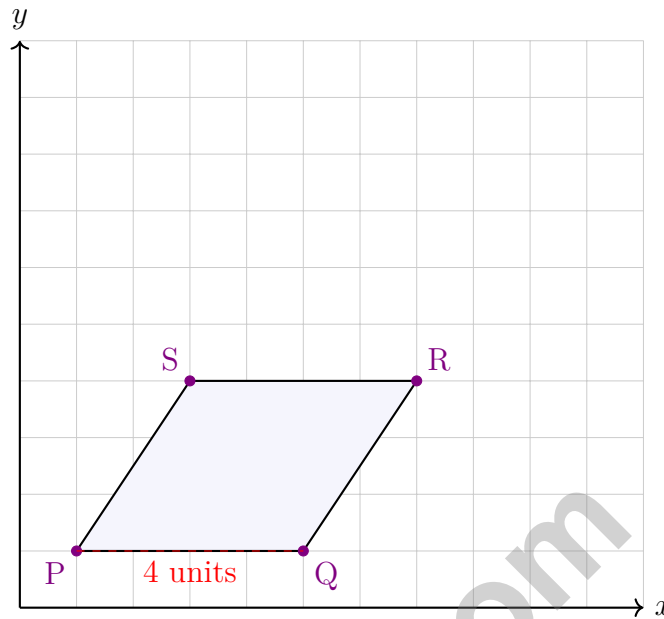
C. 5 ft

B. 3 ft

D. 4 ft



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& answers



5)

What is the length of side PQ ?

- A. 3 units
- B. 6 units
- C. 5 units
- D. 4 units

6) A right triangle has vertices at $(1, 1)$, $(7, 1)$, and $(1, 5)$. What is its area?

- A. 8 square units
- B. 20 square units
- C. 16 square units
- D. 12 square units



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.



Scan me!
For more practice
& answers

Kentucky Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (KY.6.SP.2) The mode is the value that appears most often. The value 3 appears three times.
- 2) **Choice C is correct.** (KY.6.RP.3) 50% of $160 = 0.50 \times 160 = 80$ apples.
- 3) **Choice B is correct.** (KY.6.NS.8) Length: $|6 - 1| = 5$ units. Width: $|5 - 2| = 3$ units. Perimeter: $2(5 + 3) = 16$ units.
- 4) **Choice B is correct.** (KY.6.SP.2) Set B has the outlier 24, making it more skewed. The means are not equal, and Set A does not have a larger outlier.
- 5) **Choice B is correct.** (KY.6.NS.6) All these points lie on a straight line passing through $(0, 0)$ because the ratio is constant (12 dollars per hour). Proportional relationships always graph as straight lines through the origin.
- 6) **Choice A is correct.** (KY.6.NS.1) $25\% = \frac{25}{100}$. Simplify by dividing numerator and denominator by 25: $\frac{25 \div 25}{100 \div 25} = \frac{1}{4}$.
- 7) **Choice B is correct.** (KY.6.RP.3) Step 1: Rate is $120 \div 2 = 60$ mph. Step 2: Distance in 5 hours is $60 \times 5 = 300$ miles.
- 8) **Choice C is correct.** (KY.6.RP.3) Multiply: $0.75 \times 1000 = 750$ grams.
- 9) **Choice A is correct.** (KY.6.EE.9) Alex: $\frac{\$100}{\$500} = 0.20 = 20\%$. Jordan: $\frac{\$75}{\$400} = 0.1875 = 18.75\%$. Alex saves a higher percentage.
- 10) **Choice C is correct.** (KY.6.RP.3) The relationship is proportional because the ratio visits/days is constant: $100/1 = 200/2 = 300/3 = 100$. A constant increase alone is not enough to prove proportionality, but the constant ratio confirms it here.
- 11) **Choice A is correct.** (KY.6.EE.2) Food budget is 20% of \$80: $0.20 \times 80 = \$16$.
- 12) **The correct answer is 16.** (KY.6.RP.1) Shirts are the 3-part amount. Since $24 \div 3 = 8$, each part is 8, and pants are 2 parts: $2 \times 8 = 16$.
- 13) **Choice D is correct.** (KY.6.RP.3) Divide: $54 \text{ feet} \div 18 \text{ inches} = 3 \text{ feet per inch}$.
- 14) **Choice B is correct.** (KY.6.NS.1) $\frac{9}{16} \times \frac{4}{3} = \frac{36}{48} = \frac{3}{4}$.
- 15) **Choice A is correct.** (KY.6.NS.2) $5,460 \div 28 = 195$ exactly. Check: $28 \times 195 = 5,460$.
- 16) **Choice D is correct.** (KY.6.NS.3) Align decimal points: $12.70 + 8.45 = 21.15$. Stack and add, carrying as needed.
- 17) **The correct answer is 40 miles per hour.** (KY.6.RP.3) Divide distance by time: $360 \div 9 = 40$ miles per hour.
- 18) **Choice A is correct.** (KY.6.NS.4) $72 = 8 \times 9 = (2 \times 2 \times 2) \times (3 \times 3) = 2^3 \times 3^2$. Options B, C, and D contain composite numbers.
- 19) **Choice D is correct.** (KY.6.NS.4) Factors of 16: 1, 2, 4, 8, 16. Factors of 40: 1, 2, 4, 5, 8, 10, 20, 40. Common factors: 1, 2, 4, 8. GCF is 8.
- 20) **The correct answer is $4 : 6 = 2 : 3$ (dividing by 2) and $4 : 6 = 8 : 12$ (multiplying by 2)..** (KY.6.RP.1) Nice checking: Choice A works because $4 : 6$ simplifies to $2 : 3$, and Choice B works because multiplying both parts of $4 : 6$ by 2 gives $8 : 12$. The other choices change the relationship.
- 21) **Choice C is correct.** (KY.6.NS.5) The vertical distance is the difference: $150 - (-45) = 150 + 45 = 195$ feet.
- 22) **Choice D is correct.** (KY.6.SP.4) Error analysis: Jordan confused absolute value with the original number. Absolute value $|-7| = 7$ represents distance, which is always non-negative.
- 23) **The correct answer is \$1.50.** (KY.6.NS.1) $\$9 \div 6 = \1.50 per muffin. Accept 1.5 as equivalent.
- 24) **Choice D is correct.** (KY.6.EE.8) The decimal -0.5 equals one-half of -1 , which is $-\frac{1}{2}$.
- 25) **Choice A is correct.** (KY.6.NS.8) Reflecting across the y -axis flips the x -coordinate to its opposite, giving $(-a, b)$.
- 26) **Choice A is correct.** (KY.6.NS.7) 3 satisfies $1.5 < 3 < 5$.
- 27) **Choice A is correct.** (KY.6.NS.3) Starting balance: 250. Withdrawal is -100 . So $250 + (-100) = 150$.
- 28) **Choice A is correct.** (KY.6.NS.3) Negative divided by negative is positive: $\frac{-36}{-6} = 6$.



A Note From Your Math Friend

Hi, Math Star!

◇ Wow! You finished 3 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 3 tests, you learned that trying is the most important thing. ★

Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

Big tip for test day: take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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

Jay Daie

Your Math Friend

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 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:

- 3 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
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ 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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REGULARLY



STAY
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