

8

FULL-LENGTH

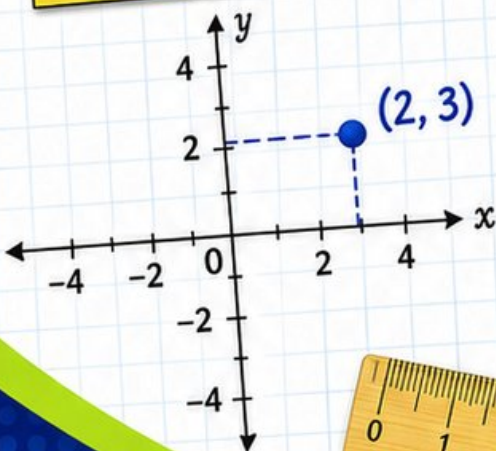
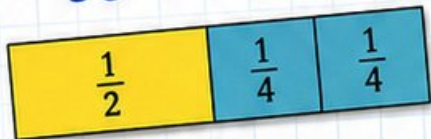
Kansas KAP

GRADE 5

MATH PRACTICE TESTS

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

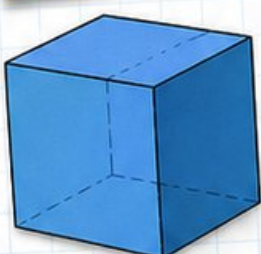
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

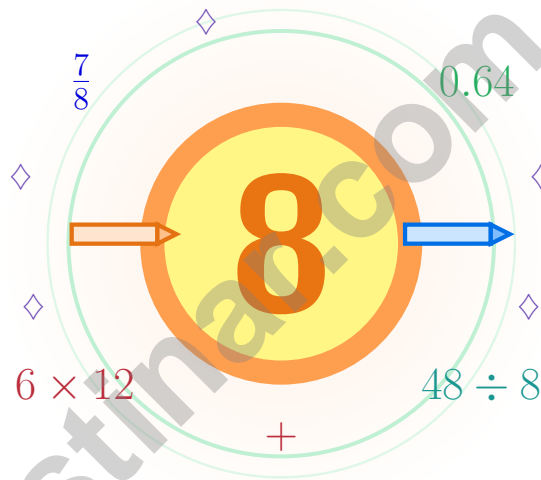
$$7 \times (12 - 5) = 49$$

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 Kansas KAP Grade 5 Math Practice Tests

Seven chances to read carefully, solve smartly, and grow stronger



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

Jay Daie and Reza Nazari



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Kansas Math Crew, Welcome to the Path

Seven steps, seven growth checks, one calm routine

To the Grade 5 Mathematician

This practice book is your steady companion for eight tests, not a place to be perfect. Strong math thinking opens like a sunflower – slow at sunrise, steady all day, and turning to follow the light.

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.

Read

Read every word twice and underline what is asked.

Solve

Choose the cleanest method and show your steps.

Reflect

Look back to find what worked and what to fix.

A strong habit for Kansas 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 Get the Most Out

A simple routine that turns practice into progress

Step 1: Power Up

Sharpen your math brain with the quick review.

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

Step 2: Trail Run

Take a full practice test in a quiet spot.

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

Step 3: Debrief

Score honestly and circle missed questions.

Circle missed questions and notice which topics keep showing up.

Step 4: Repair

Fix the missed work and lock the lesson in.

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



Table of Contents

★ Practice Test 1	_____	22
★ Practice Test 2	_____	36
★ Practice Test 3	_____	50
★ Practice Test 4	_____	65
★ Practice Test 5	_____	79
★ Practice Test 6	_____	94
★ Practice Test 7	_____	109
★ Practice Test 8	_____	124
Practice Test Answer Keys	_____	140
Practice Test Answers and Explanations	_____	145

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	Metric
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
1 yard (yd) = 3 feet (ft)	1 centimeter (cm) = 10 millimeters (mm)
1 yard (yd) = 36 inches (in.)	1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary	Metric
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (L) = 1,000 milliliters (mL)
1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	

WEIGHT AND MASS

Customary	Metric
1 pound (lb) = 16 ounces (oz)	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) A recipe requires 2.518 liters of water. Which digit is in the tenths place?
- A. 2 C. 1
 B. 5 D. 8
- 2) You divide a decimal by 100. What happens to the decimal point?
- A. It moves 2 places to the left C. It moves 2 places to the right
 B. It moves 1 place to the right D. It moves 1 place to the left
- 3) A fabric store has $\frac{5}{12}$ yard cotton and $\frac{1}{4}$ yard wool. Which amount is more, and by how much?
- A. Cotton by $\frac{1}{12}$ yard C. Cotton by $\frac{2}{12}$ yard
 B. Wool by $\frac{1}{12}$ yard D. They are equal
- 4) Write the decimal 0.47 as a fraction.
- A. $\frac{47}{100}$ C. $\frac{4}{7}$
 B. $\frac{47}{10}$ D. $\frac{47}{1000}$
- 5) Error analysis: A student writes $4.2 + 1.63 = 5.65$. What is the error?
- A. The sum is correct. C. The student rounded both numbers before adding.
 B. The student did not align decimal points properly. D. The sum should be 5.73 because of regrouping.
- 6) In the quadrilateral hierarchy, a square is always what special type of quadrilateral with four right angles?

Record your answer in the space provided.

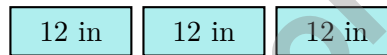


7) Pattern table. Find the missing value.

Expression	Result
0.12×10	1.2
0.12×100	12
$0.12 \times 1,000$	120
$0.12 \times 10,000$?

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

8) How many feet are in 36 inches?



36 inches grouped into feet

- A. 2 feet C. 4 feet
 B. 6 feet D. 3 feet

9) A cube has side length 4 in. Find its volume.

Record your answer in the space provided.

10) Evaluate: $9 \times 2 + (10 - 3) \times 3$

- A. 39 C. 42
 B. 40 D. 45



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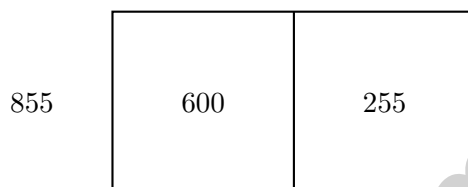
1 day = 24 hours (hr) 1 year = 52 weeks



1) The pattern 4, 8, 12, 16, ... is best described as:

- A. Multiples of 4
- B. Powers of 2
- C. Odd numbers
- D. Triangular numbers

2) Complete the area-model division for $855 \div 15$:



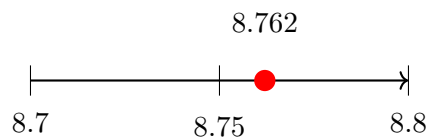
Divisor: 15

What is the quotient?

- A. 55
 - B. 57
 - C. 59
 - D. 61
- 3) Tommy has $\frac{3}{4}$ gallon milk. Uses $\frac{1}{3}$ gallon for cereal. How much left?

- A. $\frac{9}{12}$ gallon
- B. $\frac{2}{12}$ gallon
- C. $\frac{4}{7}$ gallon
- D. $\frac{5}{12}$ gallon

4) Maria measures 8.762 meters of ribbon. If she rounds to the nearest tenth for her project, how much does she use?



- A. 8.7 m
- B. 8.76 m
- C. 8.8 m
- D. 9 m



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- 1) A composite science fair model is made from two non-overlapping rectangular prisms. Prism A is 9 meters long, 4 meters wide, and 2 meters tall. Prism B is 6 meters long, 2 meters wide, and 1 meter tall. What is the total volume?

- A. 72 cubic meters
 B. 12 cubic meters
 C. 120 cubic meters
 D. 84 cubic meters

- 2) One tenth gallon of glue is split equally among 5 teams. Which division equation finds each share?

- A. $5 \div \frac{1}{10} = n$
 B. $\frac{1}{10} \times 5 = n$
 C. $5 + \frac{1}{10} = n$
 D. $\frac{1}{10} \div 5 = n$

- 3) Find: 0.45×10^3 .

Record your answer in the space provided.

- 4) Pattern Y: 9, 18, 27, 36. Pattern Z: 3, 6, 9, 12. What relationship holds?

Z	Y
3	9
6	18
9	27
12	36

- A. $Y = Z + 4$
 B. $Y = 2 \times Z$
 C. $Y = 3 \times Z$
 D. $Y = Z - 3$



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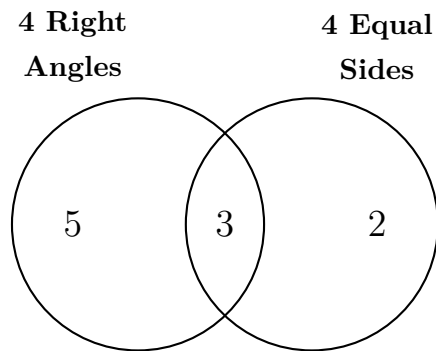
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1) A Venn diagram classifies quadrilaterals by two properties:



Which type of figure is represented by the number 3?

- A. Rectangles that are not squares C. Rhombuses that are not squares
- B. Squares D. Triangles
- 2) What is $7.83 \times 1,000$?
- A. 78.3 C. 7,830
- B. 783 D. 78,300
- 3) A prism has volume 144 cm^3 , length 6 cm, and height 4 cm. Find its width.

Record your answer in the space provided.



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 B is correct.** (5.NBT.1) In 2.518, the digit 5 is in the first place after the decimal point, which is the tenths place.
- Choice A is correct.** (5.NBT.1) Dividing by 100 shifts the decimal point 2 places to the left. For example, $45.6 \div 100 = 0.456$.
- Choice C is correct.** (5.NF.2) Common denominator 12: $\frac{5}{12}$ and $\frac{1}{4} = \frac{3}{12}$. Difference: $\frac{5}{12} - \frac{3}{12} = \frac{2}{12}$. Cotton is more.
- Choice A is correct.** (5.NBT.3a) The decimal 0.47 has two digits after the decimal point, so it represents 47 hundredths: $0.47 = \frac{47}{100}$.
- Choice B is correct.** (5.NBT.3a) Write 4.2 as 4.20 before adding. Then $4.20 + 1.63 = 5.83$ (hundredths: $0 + 3 = 3$; tenths: $2 + 6 = 8$; ones: $4 + 1 = 5$). The answer 5.65 suggests the decimal places were not lined up carefully.
- The correct answer is rectangle.** (5.G.4) A square has all the properties of a rectangle: four right angles and two pairs of opposite sides that are parallel. A square is a special type of rectangle.
- Choice A is correct.** (5.G.4) Multiplying by 10,000 moves the decimal four places right. From 0.12, the missing value is 1,200.
- Choice D is correct.** (5.MD.1) Since 12 inches = 1 foot, divide 36 by 12: $36 \div 12 = 3$ feet.
- The correct answer is 64 in³.** (5.MD.5a) For a cube, multiply the side length by itself three times: $4 \times 4 \times 4 = 64$ in³.
- Choice A is correct.** (5.MD.5a) Do the grouped and multiplication parts first: $9 \times 2 = 18$, $10 - 3 = 7$, and $7 \times 3 = 21$. Then $18 + 21 = 39$.
- The correct answer is 1.** (5.OA.1) The mixed number $1\frac{2}{5}$ is $\frac{7}{5}$. Then $\frac{7}{5} \times \frac{5}{7} = 1$ because the numerator and denominator factors match.
- Choice A is correct.** (5.NF.5b) The first product, 6×4 , shows the cost of the red pens. The second product, 6×3 , shows the cost of the blue pens. Adding them gives the total cost.
- Choice B is correct.** (5.NBT.2) $18 \times 10^4 = 18 \times 10000 = 180000$ artifacts.
- Choice A is correct.** (5.NBT.2) $47 \times 1000 = 47000$. Append three zeros to the right.
- Choice D is correct.** (5.NBT.2) A quadrilateral with 4 right angles is a rectangle. Since the sides are not all equal, the most specific classification is rectangle rather than square.
- Choice D is correct.** (5.NF.5a) $\frac{11}{10} > 1$, so the product is greater than 30.
- Choice D is correct.** (5.NF.1) LCM(12,4) = 12. $\frac{1}{4} = \frac{3}{12}$. $\frac{7}{12} + \frac{3}{12} = \frac{10}{12} = \frac{5}{6}$ mile.
- Choice A is correct.** (5.MD.1) Convert first: 3 yards = 108 inches and 4 feet = 48 inches. Used ribbon: $48 + 18 = 66$ inches. Ribbon left: $108 - 66 = 42$ inches.
- Choices A, B are correct.** (5.MD.5) The base area is $4 \times 3 = 12$ square units. Then $48 \div 12 = 4$, so the height is 4 units. C and D come from mixing up the height with the volume.
- Choice D is correct.** (5.MD.5) Adult tickets: $3 \times 22.50 = 67.50$ dollars. Student tickets: $5 \times 15.00 = 75.00$ dollars. Total: $67.50 + 75.00 = 142.50$ dollars.
- Choice A is correct.** (5.NBT.2) 25×40 makes 1,000, which ends with 3 zeros. The other products end with fewer zeros.
- Choice C is correct.** (5.NBT.2) Use the rectangular-prism volume formula: $12 \times 7 \times 3 = 252$. So the volume is 252 cubic feet.
- Choice C is correct.** (5.NF.7c) A sixth-box kit means 6 kits per full box. $15 \div \frac{1}{6} = 15 \times 6 = 90$ kits.
- The correct answer is 10.** (5.G.1) Each term decreases by 10. Term 10: $100 - 9 \times 10 = 100 - 90 = 10$.
- Choice C is correct.** (5.G.1) $3 \div \frac{1}{6} = 3 \times 6 = 18$. There are 18 slices in 3 pizzas.
- Choice B is correct.** (5.MD.4) The prism is one cube wide and one cube deep, so it is a single stack. A height of 8 means 8 unit cubes.
- Choice C is correct.** (5.G.1) A rectangle has four right angles. The fourth corner shares the x-coordinate of one corner and the y-coordinate of another: (1, 4).
- Choice A is correct.** (5.NF.7c) $\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$.



Cheer Squad Final Pep Talk

Hey Math Superstar!

◇ 8 practice tests! That's a LOT of work, and you did it all! I'm cheering so loud right now you can probably hear me through this page. You've earned every clap, every hooray, and every smile. ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 8 times. That's why your confidence is real today. It's not pretend. You earned it, problem by problem. ★

Cheer Squad Roll Call

- **Effort:** 100% SHOWED UP!
- **Heart:** HUGE!
- **Skill:** STRONG and growing!
- **Spirit:** BRIGHT and bold!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I've got this. I've practiced. I'm ready." Tiny self-cheers make a big difference.

If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

Jay Daie

Your Math Cheerleader (Go 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.



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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

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

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Great for Students, Parents, and Teachers!

Practice with purpose. Succeed with confidence!