

7

Kansas

KAP

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



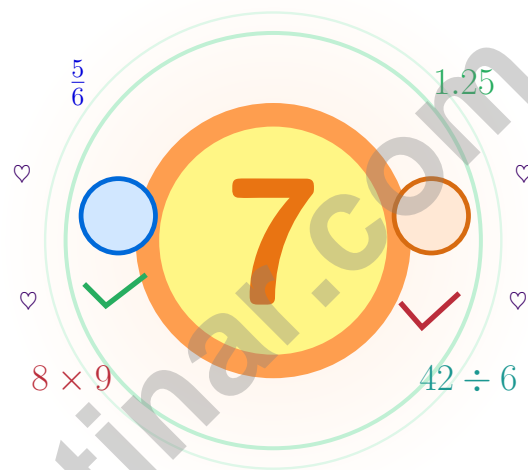
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

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

7 Kansas KAP Grade 5 Math Practice Tests

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



Seven full tests, a concise 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 Mathematicians, Lace Up

A seven-step trail built for steady, brave thinking

An Invitation to Grade 5 in Kansas

This practice book is your steady companion for seven 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 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.

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 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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Scan me



A Simple Path Through Seven Tests

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.

A Good 7-Week Kansas Rhythm

| | |
|---------------|--|
| Week 1 | Take Test 1 and watch your math sunflower turn. |
| 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 calm, confident, sunlit focus. |



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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

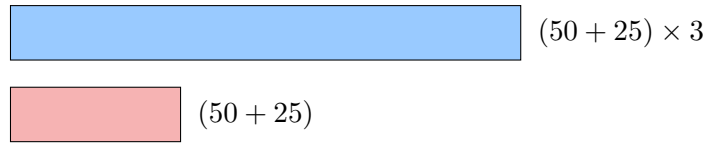
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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

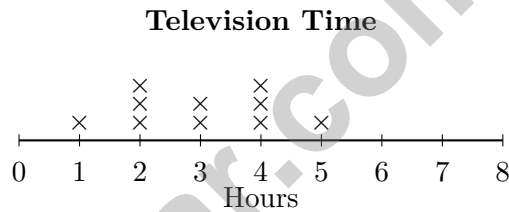


1) The diagram shows the comparison. Which statement is correct?



- A. Bottom is triple the top
- B. Top is half the bottom
- C. They are equal
- D. Top is 3 times the bottom

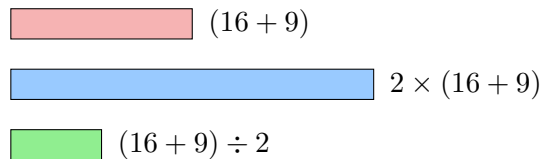
2) The line plot displays the time (in hours) spent watching television:



What is the least amount of television watched?

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

3) The diagram shows three bars representing expressions. Without calculating, rank them from smallest to largest.



- A. $(16 + 9) < 2 \times (16 + 9) < (16 + 9) \div 2$
- B. $(16 + 9) \div 2 < (16 + 9) < 2 \times (16 + 9)$
- C. $2 \times (16 + 9) < (16 + 9) < (16 + 9) \div 2$
- D. $(16 + 9) \div 2 < 2 \times (16 + 9) < (16 + 9)$



- 4) If a rectangular prism's length is doubled and all other dimensions stay the same, how does the volume change?
- A. The volume stays the same C. The volume triples
 B. The volume halves D. The volume doubles
- 5) A recipe makes 4 cookies and calls for $\frac{3}{4}$ cup of butter. How much butter is needed to make $2\frac{2}{3}$ times the recipe?
- A. 3 cups C. $2\frac{1}{4}$ cups
 B. 1 cup D. 2 cups
- 6) A movie theater sells 1,080 tickets over 15 days. If sales are equal each day, how many tickets per day?
- A. 70 C. 75
 B. 72 D. 80
- 7) What is 2.13×10 ?
- A. 2.13 C. 21.3
 B. 213 D. 2130
- 8) A rectangular prism has length 7 m, width 4 m, height 3 m. Find the volume.
- A. 84 m^3 C. 28 m^3
 B. 14 m^3 D. 21 m^3
- 9) Find: 3.6×5 .

Record your answer in the space provided.



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Scan me

- 1) Two rectangular boxes are placed side by side. Box 1 has dimensions 5 inches \times 3 inches \times 4 inches. Box 2 has dimensions 6 inches \times 3 inches \times 4 inches. What is the combined volume?

| Box | Length | Width | Height |
|-------|--------|-------|--------|
| Box 1 | 5 | 3 | 4 |
| Box 2 | 6 | 3 | 4 |

- A. 48 cubic inches
 B. 60 cubic inches
 C. 84 cubic inches
 D. 132 cubic inches
- 2) Pattern X is 1, 2, 3, 4. Pattern Y is 4, 8, 12, 16. Each Y value is how many times X?

Record your answer in the space provided.

- 3) A school bought 12 boxes of colored pencils. Each box contains 24 pencils. How many pencils did the school buy?
- A. 276
 B. 288
 C. 300
 D. 312
- 4) A polygon has 6 sides, 6 vertices, and all sides and angles equal. Which classification best describes it?
- A. Regular hexagon
 B. Irregular hexagon
 C. Pentagon
 D. Rectangle



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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 D is correct.** **(5.OA.2)** The top bar represents 3 copies of the bottom expression. That makes the top expression 3 times the bottom expression.
- 2) **Choice A is correct.** **(5.MD.2)** The least value on the line plot is 1 hour, which has 1 X mark.
- 3) **Choice B is correct.** **(5.OA.2)** The shortest bar is half the sum, the middle bar is the sum itself, and the longest bar is double the sum. That gives the order in choice B.
- 4) **Choice D is correct.** **(5.MD.5a)** Doubling the length makes twice as many equal rows of cubic units. Since the width and height stay the same, the total volume doubles.
- 5) **Choice D is correct.** **(5.NF.5b)** $\frac{3}{4} \times 2\frac{2}{3} = \frac{3}{4} \times \frac{8}{3} = \frac{24}{12} = 2$ cups.
- 6) **Choice B is correct.** **(5.NBT.6)** $1,080 \div 15 = 72$ tickets per day. Check: $15 \times 72 = 1,080$.
- 7) **Choice C is correct.** **(5.NBT.2)** Move the decimal point 1 place right: $2.13 \times 10 = 21.3$.
- 8) **Choice A is correct.** **(5.MD.5a)** $V = l \times w \times h = 7 \times 4 \times 3 = 84 \text{ m}^3$.
- 9) **The correct answer is 18.** **(5.NBT.7)** $36 \times 5 = 180$. Place the decimal one digit from the right: $18.0 = 18$.
- 10) **Choice C is correct.** **(5.G.1)** Term 1: 1. Term 2: $1 \times 10 - 2 = 8$. Term 3: $8 \times 10 - 2 = 78$.
- 11) **The correct answer is 25000.** **(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.
- 12) **Choice B is correct.** **(5.NF.7c)** Start with one unit fraction, $\frac{1}{3}$, and share it into 2 equal parts. Each part is $\frac{1}{3} \div 2 = \frac{1}{6}$ of the whole.
- 13) **The correct answer is equilateral.** **(5.G.4)** The side lengths are 5 cm, 5 cm, and 5 cm, so all 3 sides are equal. The triangle is equilateral.
- 14) **Choice C is correct.** **(5.G.2)** Third pair: X-value is 5 (position 3 in 1, 3, 5, 7), Y-value is 6 (position 3 in 2, 4, 6, 8).
- 15) **Choice C is correct.** **(5.MD.5)** Total is 5 miles. Sum of known segments: $1.2 + 1.3 + 1.1 = 3.6$ miles. Final segment: $5 - 3.6 = 1.4$ miles.
- 16) **Choice A is correct.** **(5.NF.7c)** $9 \div \frac{1}{3} = 9 \times 3 = 27$.
- 17) **Choice A is correct.** **(5.NBT.2)** $600 \div 100 = 6$. (B gives 60; C gives 0.6; D gives 0.06).
- 18) **Choices A, B are correct.** **(5.NF.5a)** A and B are smaller than 8 because their scaling factors, $\frac{1}{2}$ and $\frac{3}{4}$, are less than 1. C and D use factors greater than 1, so those products are larger than 8.
- 19) **Choice C is correct.** **(5.MD.5a)** Volume = $12 \times 8 \times 5 = 480$ cubic centimeters.
- 20) **Choice B is correct.** **(5.OA.2)** Check the values: A, C, and D all equal 20. Choice B equals 24, so it is the one that does not match.
- 21) **Choice B is correct.** **(5.NBT.2)** Dividing by 10: $52.3 \div 10 = 5.23$ kg per classroom.
- 22) **Choice C is correct.** **(5.G.2)** The first coordinate, 7, matches the x-axis label: hours open. The second coordinate, 84, matches the y-axis label: cups sold. So the point means cups sold is 84 when hours open is 7.
- 23) **Choice A is correct.** **(5.NF.7c)** $\frac{1}{4} \div 3 = \frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$.
- 24) **Choice B is correct.** **(5.NF.2)** Multiply numerator and denominator by 4: $\frac{3 \times 4}{4 \times 4} = \frac{12}{16}$.
- 25) **Choice A is correct.** **(5.NF.7c)** Use division because we are finding how many quarter-pound groups fit in 6 pounds: $6 \div \frac{1}{4} = 24$ displays.
- 26) **Choice D is correct.** **(5.MD.5c)** Volume counts cubic units inside the whole solid. Splitting into non-overlapping prisms lets you add the cubic units from each part.
- 27) **Choice B is correct.** **(5.NBT.2)** Multiplying by 10^2 moves the decimal 2 places right: $0.5 \times 100 = 50$.
- 28) **Choice D is correct.** **(5.MD.5)** The known length and height make groups of $15 \times 9 = 135$ cubic centimeters. Since $540 \div 135 = 4$, the width is 4 cm.
- 29) **Choice D is correct.** **(5.NF.2)** LCD = 12. $\frac{3}{4} = \frac{9}{12}$; $\frac{1}{6} = \frac{2}{12}$. $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$.
- 30) **Choice D is correct.** **(5.NF.2)** $\frac{7}{8} - \frac{3}{8} = \frac{4}{8} = \frac{1}{2}$ of the tank.



Time and Organization

Dear Student,

★ Seven tests helped you practice managing time. Time skills include pacing, skipping and returning, and saving a few minutes to review. Those habits help you earn more points. ★

◇ **A simple rule:** don't get stuck too long on one question. Move forward and return later with a fresh mind. ◇

My Time Plan

- **Start steady:** read carefully, don't rush.
- **Mark hard ones:** circle and move on.
- **Return later:** try again with a clear head.
- **Review:** save time to check answers.

You practiced smart pacing across seven tests—use it on test day.

Email me at reza@testinar.com.

Reza Nazari & Jay Daie

Your Math Coaches (Use Your Time Wisely)

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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.



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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!



Visit testinar.com/math5 for more Grade 5 math resources and practice materials!



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BY PARENTS

Quality resources you can trust.



DESIGNED
FOR SUCCESS

Proven practice for real results.



SUPPORT
YOUR CHILD

Every step of the way.