

5 FULL-LENGTH Nebraska NSCAS Growth

GRADE 5 MATH

★ PRACTICE TESTS ★



5 FULL-LENGTH
PRACTICE TESTS



COMPLETE
STANDARDS
REVIEW



SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!

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



$$12 \times 3 = 36$$



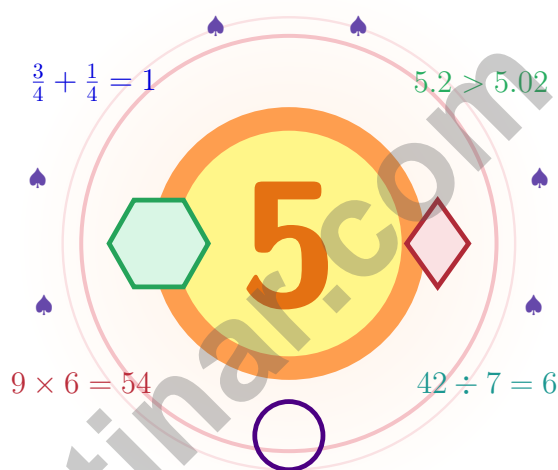
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Nebraska NSCAS Growth Grade 5 Math Practice Tests

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



Five full tests, a friendly quick review, smart strategy pages, and student-tested support that turn Grade 5 practice in The Cornhusker State into a steady quest of real growth.

Jay Daie and Reza Nazari



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Step into the Quest, Nebraska

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

To Nebraska Students Who Love a Puzzle

This book is your practice zone, not a place to be perfect. Each of the five tests gives you a chance to notice clues, choose a strategy, check your thinking, and come back stronger for the next round. Math is a lot like a long Nebraska cornfield – the work is real, the rows are tidy, and finishing one helps you start the next.

Some questions will feel easy right away. Some will make you slow down, draw, estimate, or retry. That is excellent news. It means your math brain is doing real work.

Spot Clues

Notice the numbers, units, and tricky words.

Make a Plan

Choose the strategy or model that fits.

Bounce Back

Mistakes show you exactly where to grow next.

A strong quest habit for Nebraska: slow down, write neatly, estimate before you solve, and keep going even when a problem looks tricky at first. That is exactly how confident math students are built.

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How This Book Wants to Help

A simple routine that turns five tests into real growth

Step 1: Warm Up

Sharpen your math brain with the quick review.

Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Quest Run

Take a full practice test in a calm spot.

Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Debrief

Score honestly and circle missed questions.

Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Repair Kit

Fix the missed work and lock the lesson in.

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



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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



Scan me

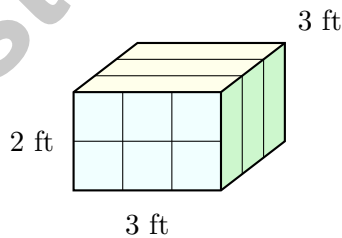
- 5) Write the fraction $\frac{12}{18}$ in simplest form.

Record your answer in the space provided.

- 6) What pattern is shown in the input-output table?

x	y
0	5
1	7
2	9
3	11

- A. Start at 5 and add 1 each row
- B. Start at 5 and add 2 each row
- C. Start at 2 and add 3 each row
- D. Multiply the input by 5
- 7) How many cubic feet of space does a storage box with dimensions 3 ft \times 3 ft \times 2 ft contain?



- A. 8 cubic feet
- B. 12 cubic feet
- C. 18 cubic feet
- D. 24 cubic feet



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1)

Properties Table

Shape	Parallel sides	Must have all sides equal?	Must have 90° angles?
Square	✓	✓	✓
Rectangle	✓	–	✓
Rhombus	✓	✓	–
Trapezoid	at least 1 pair	–	–

A quadrilateral has all four sides equal in length AND all four angles equal to 90°. Using the table, what is the MOST specific name for this shape?

- A. Quadrilateral
 B. Parallelogram
 C. Rectangle
 D. Square

2) Use $V = B \times h$ where B is the base area. If $B = 20 \text{ cm}^2$ and $h = 8 \text{ cm}$, find V .

Record your answer in the space provided.

3) A bus trip costs $\$2\frac{1}{2}$ per person. What is the total cost for 5 people?

- A. $\$12\frac{1}{2}$
 B. $\$15$
 C. $\$17\frac{1}{2}$
 D. $\$10$



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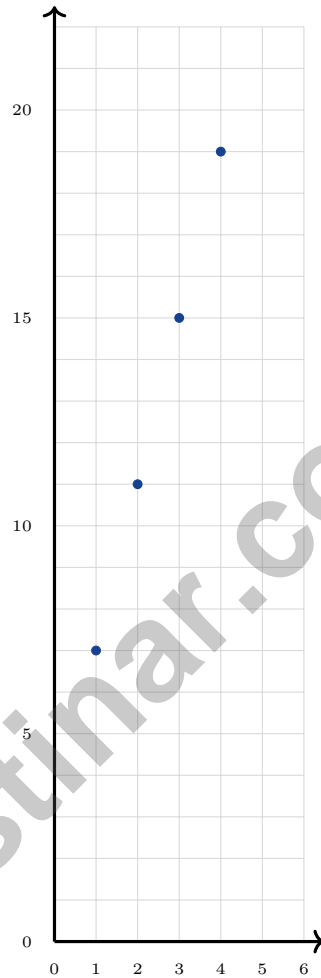
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- 1) An input-output table shows: inputs 1, 2, 3, 4 with outputs 7, 11, 15, 19. These pairs are plotted as (input, output). What is the relationship?



- A. Add 6 to the first coordinate
- B. Multiply the first coordinate by 5, then add 2
- C. Multiply the first coordinate by 3, then add 4
- D. Multiply the first coordinate by 4, then add 3



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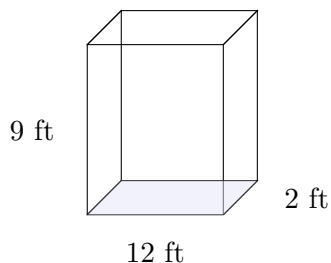
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1 day = 24 hours (hr) 1 year = 52 weeks



1) What is $30.25 - 14.56$?

- A. 15.69 C. 16.19
 B. 15.79 D. 15.49

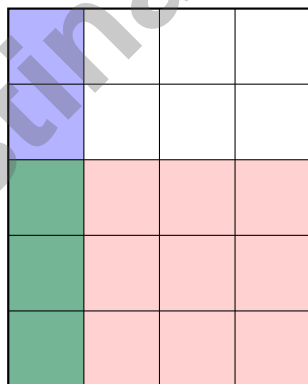


2)

Find the volume.

- A. 23 ft^3 C. 24 ft^3
 B. 216 ft^3 D. 108 ft^3

3) The area model below shows $\frac{1}{4} \times \frac{3}{5}$.



What is the area of the double-shaded overlap?

- A. $\frac{3}{25}$ C. $\frac{1}{9}$
 B. $\frac{3}{20}$ D. $\frac{4}{20}$



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.N.2) Friend gets: $\frac{1}{4} \times 80 = 20$ cookies. Remainder: $80 - 20 = 60$ cookies. Neighbor gets: $\frac{2}{5} \times 60 = 24$ cookies.
- 2) **Choice A is correct.** (5.N.3) One sector is $\frac{1}{5}$. Divided by 2: $\frac{1}{5} \div 2 = \frac{1}{10}$.
- 3) **Choice A is correct.** (5.N.2) $\frac{1}{2} + \frac{1}{3}$: common denominator is 6. $\frac{1}{2} = \frac{3}{6}$ and $\frac{1}{3} = \frac{2}{6}$, so total is $\frac{5}{6}$ cup.
- 4) **Choice B is correct.** (5.G.2) Pencils = 5 × Students: $3 \times 5 = 15$, $6 \times 5 = 30$, $9 \times 5 = 45$, $12 \times 5 = 60$.
- 5) **The correct answer is $\frac{2}{3}$.** (5.N.3) Divide both by 6 (the GCF): $\frac{12 \div 6}{18 \div 6} = \frac{2}{3}$.
- 6) **Choice B is correct.** (5.G.2) The outputs go 5, 7, 9, 11. Each time the input increases by 1, the output increases by 2.
- 7) **Choice C is correct.** (5.G.1) $V = 3 \times 3 \times 2 = 18$ cubic feet.
- 8) **The correct answer is 8.2.** (5.N.2) Move the decimal point two places right: $0.082 \rightarrow 8.2$.
- 9) **Choice B is correct.** (5.N.3) LCM(4,3) = 12. $\frac{1}{4} = \frac{3}{12}$ and $\frac{1}{3} = \frac{4}{12}$. $\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$.
- 10) **Choice B is correct.** (5.N.3) The area model breaks into four parts: $3 \times 2 = 6$, $3 \times 0.5 = 1.5$, $0.2 \times 2 = 0.4$, $0.2 \times 0.5 = 0.1$. Total: $6 + 1.5 + 0.4 + 0.1 = 8$.
- 11) **Choice C is correct.** (5.G.4) $\frac{7}{14} = \frac{1}{2}$, and $\frac{1}{10}$ is close to 0 as a benchmark. So the sum is closest to $\frac{1}{2}$ among the estimates shown.
- 12) **Choice C is correct.** (5.N.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.
- 13) **Choice B is correct.** (5.G.2) The points are (0,0), (1,2), (2,4), and so on, so the distance is twice the time.
- 14) **The correct answer is 84 cubic feet.** (5.G.1) Subtract the known part from the total: $210 - 126 = 84$ cubic feet. That is the missing part's volume.
- 15) **Choice D is correct.** (5.N.3) Total cost: $42.50 + 38.75 = 81.25$ dollars. Change: $100 - 81.25 = 18.75$ dollars.
- 16) **Choice C is correct.** (5.A.1) One box: $5 \times 4 \times 3 = 60$ in³. Two boxes: $60 \times 2 = 120$ in³.
- 17) **Choice A is correct.** (5.G.2) The ordered pair should show the input and the output. Dividing 12 by 3 gives 4, so the pair is (12, 4).
- 18) **Choices A, B are correct.** (5.N.2) 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 D is correct.** (5.N.3) $7 \div \frac{1}{2} = 7 \times 2 = 14$. We need 14 bottles.
- 20) **Choice C is correct.** (5.D.2) Multiplication is associative, so grouping does not change the product. The expressions are equal.
- 21) **Choice D is correct.** (5.D.2) The amount being scaled is the sum (10 + 7). The phrase "3 times as many as" means multiply that whole sum by 3.
- 22) **Choice A is correct.** (5.N.3) LCD = 24. $\frac{5}{8} = \frac{15}{24}$; $\frac{1}{3} = \frac{8}{24}$. $\frac{15}{24} - \frac{8}{24} = \frac{7}{24}$.
- 23) **Choice A is correct.** (5.D.2) The product part is 2×6 . Since 5 is added to that product, the phrase is "five more than the product of 2 and 6."
- 24) **Choice D is correct.** (5.A.1) Total volume: $16 \times 12 \times 10 = 1920$ cubic inches. Half full: $1920 \div 2 = 960$ cubic inches.
- 25) **Choice C is correct.** (5.G.2) The first coordinate, 5, matches the x-axis label: weeks. The second coordinate, 25, matches the y-axis label: plant height in inches. So the point means plant height in inches is 25 when weeks is 5.
- 26) **The correct answer is 9 ft.** (5.G.3) $3 \times 3 = 9$ feet. Each yard has 3 feet, so 3 yards has three groups of 3 feet.
- 27) **Choice B is correct.** (5.N.3) Estimate: $2.89 \approx 3$ and $3.15 \approx 3$, so $3 + 3 = 6$. Exact: $2.89 + 3.15 = 6.04$ (hundredths: $9 + 5 = 14$, regroup; tenths: $8 + 1 + 1 = 10$, regroup; ones: $2 + 3 + 1 = 6$).
- 28) **Choice C is correct.** (5.N.2) $\frac{6}{6} = 1 > \frac{1}{2}$, so $18 \times 1 > 18 \times \frac{1}{2}$.
- 29) **Choice D is correct.** (5.N.3) Line up decimal points and subtract place by place. $15.50 - 7.25 = 8.25$ meters. This confirms the answer.
- 30) **Choice C is correct.** (5.G.4) Add the cubes from each stage. Three groups of 10 cubes make $10 + 10 + 10 = 30$ unit cubes total.



Flight Log Entry

Hello, Ace Pilot!

★ Flight certification complete! You've successfully piloted through five complete training missions, navigating mathematical turbulence and landing solutions with expert precision like a certified pilot! Each test was a flight through different conditions, and you demonstrated excellent navigation skills, situational awareness, and steady control throughout. You're cleared for your important test day flight!

★

◇ **Here's what experienced pilots understand:** they complete hundreds of hours of flight training before flying solo. They practice procedures until they become automatic responses. You've logged those training hours through these five tests! Your mathematical flight skills have become so developed that you'll navigate test day smoothly and confidently! ◇

Pre-Flight Clearance Report

- **Navigation Systems:** All problem-solving instruments calibrated and functioning!
- **Weather Assessment:** You can handle any mathematical conditions that arise!
- **Emergency Procedures:** You know how to respond when encountering difficult questions!
- **Flight Approved:** Tower clears you for test day takeoff!

Remember this aviation principle: pilots stay calm because they trust their training. When you encounter turbulence on test day, remember your five training missions. You've already experienced challenging questions and navigated successfully through them. Use your instruments (strategies), trust your training, and fly confidently toward your destination!

Want to share flight logs or discuss interesting mathematical air traffic patterns? Send transmissions to reza@testinar.com. Your control tower is listening!

Reza Nazari & Jay Daie

Your Math Teacher and Practice Partner

5 FULL-LENGTH TESTS. STRONG SKILLS. BRIGHTER RESULTS.



Build confidence and master math with **5 full-length** practice tests designed to reflect the real test experience. This book provides the practice, review, and support students need to succeed in Grade 5 and beyond!

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Realistic tests that build familiarity, boost focus, and improve test readiness.



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Covers all essential Grade 5 math topics with clear explanations and examples.



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WORD PROBLEMS

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with consistent
practice



Improve Accuracy
and problem-
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Time Management
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