

FULL-LENGTH

Nebraska NSCAS Growth

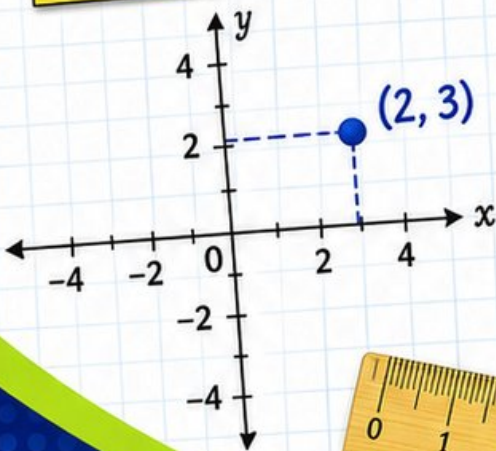
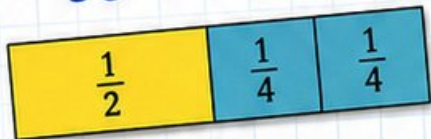
8

GRADE 5

MATH PRACTICE TESTS

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

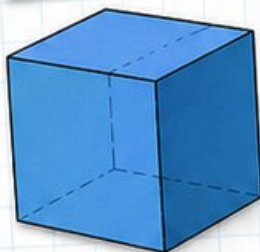
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

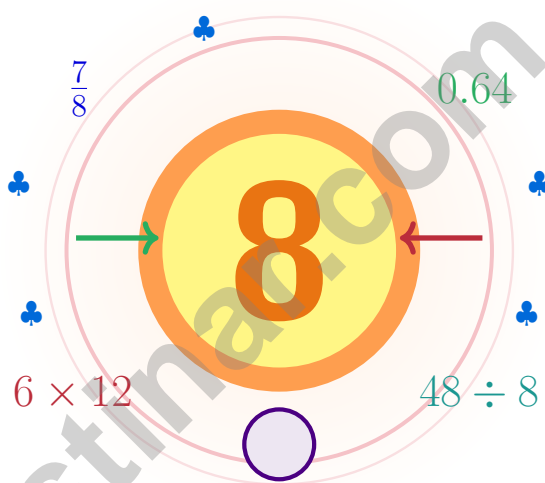
$$7 \times (12 - 5) = 49$$

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 Nebraska NSCAS Growth 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 Cornhusker State into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari



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Nebraska 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. 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.

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.

Look

Look at the problem like a detective looks at a clue.

Test

Test your idea with one careful step at a time.

Grow

Grow stronger by reviewing exactly what tripped you up.

A strong habit for Nebraska 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: Read

Read the quick review pages first.
Spend a few minutes waking up your memory before the test begins.

Step 2: Try

Try one full test with full attention.
Work in a calm spot and focus on careful thinking before speed.

Step 3: Reflect

Reflect on which skills want more sunlight.
Circle missed questions and notice which topics keep showing up.

Step 4: Lift

Lift those skills before the next test.
Read the explanation, repair the work, and bring 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)

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CAPACITY

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WEIGHT AND MASS

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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) Compare the fractions $\frac{2}{5}$ and $\frac{1}{3}$ by finding a common denominator. Which statement is true?

A. $\frac{2}{5} < \frac{1}{3}$
 B. $\frac{2}{5} > \frac{1}{3}$

C. $\frac{2}{5} = \frac{1}{3}$
 D. Cannot compare

2) Add with unequal decimal places: $3.4 + 0.27 = ?$

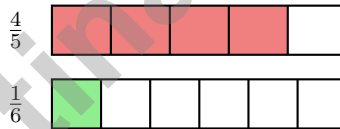
A. 3.57
 B. 4.67

C. 3.77
 D. 3.67

3) From the pattern “add 3, start at 2”, list ordered pairs (index, value) for indices 1–4:

- A. (1, 2), (2, 5), (3, 8), (4, 11)
 B. (1, 5), (2, 8), (3, 11), (4, 14)
 C. (2, 1), (5, 2), (8, 3), (11, 4)
 D. (1, 3), (2, 6), (3, 9), (4, 12)

4) Estimate: $\frac{4}{5} + \frac{1}{6}$.



A. 0
 B. $\frac{1}{2}$

C. 1
 D. 2

5) Divide: $912 \div 19$

A. 45
 B. 48

C. 50
 D. 52



6) Which fraction is in simplest form?

- A. $\frac{4}{8}$
 B. $\frac{3}{6}$

- C. $\frac{5}{7}$
 D. $\frac{2}{10}$

7) A refrigerator has dimensions of 28 inches wide, 30 inches deep, and 67 inches tall. Which unit would be most appropriate to measure its volume?

- A. Square inches
 B. Cubic inches

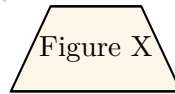
- C. Inches
 D. Linear feet

8) The place-value chart shows the result of multiplying 0.29 by a power of 10. The result is 290. What power of 10 was used?

Hundreds	Tens	Ones	Tenths	Value
2	9	0	0	290

- A. 10^1
 B. 10^2

- C. 10^3
 D. 10^4



9) Top and bottom sides are parallel

Figure X has its top and bottom sides parallel. The left and right sides are NOT parallel. Which statement describes its parallel sides?

- A. It has exactly one pair of parallel sides. C. It has no parallel sides.
 B. It has two pairs of parallel sides. D. It has four pairs of parallel sides.



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1) Multiply: $4\frac{2}{5} \times 2$

A. $8\frac{4}{5}$

B. $8\frac{2}{5}$

C. $9\frac{1}{5}$

D. $7\frac{3}{5}$

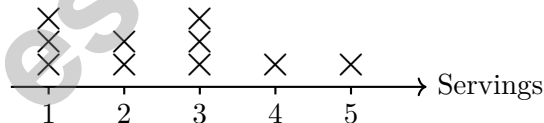
2) A model shows $\frac{1}{8}$ of a strip split into 2 equal pieces. What fraction of the whole is each piece?

Record your answer in the space provided.

3) A bag has 1 pound of flour. Each small recipe uses $\frac{1}{2}$ pound. How many small recipes can be made?

 A. 1 recipe B. 2 recipes C. 4 recipes D. 6 recipes

4) The line plot shows the number of servings of vegetables eaten per day:



What is the total number of servings eaten by all people?

 A. 25 servings B. 26 servings C. 27 servings D. 28 servings

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1) Compare: $10 \times 50 \square 20 \times 25$

A. $>$

B. $<$

C. $=$

D. Cannot tell

2) Complete: $? \times 10^3 = 8500$. What is the missing number?

A. 0.85

B. 85

C. 850

D. 8.5

3) Which expression matches a rectangular prism with length 7 units, width 3 units, and height 5 units?

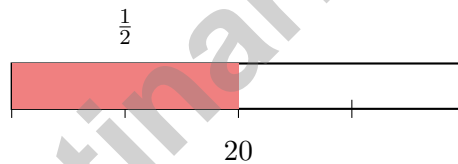
A. $7 + 3 + 5$

B. $7 \times 3 \times 5$

C. $7 \times (3 + 5)$

D. $(7 + 3) \times 5$

4) Find $\frac{1}{2}$ of 20.



A. 5

B. 20

C. 15

D. 10

5) Round 78.456 to the nearest tenth.

A. 78.4

B. 78.45

C. 78.5

D. 79



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1) Estimate: $\frac{2}{3} - \frac{1}{8}$.

 A. 0 B. $\frac{1}{2}$ C. 1 D. 2

2) What is $480 \div 10$?

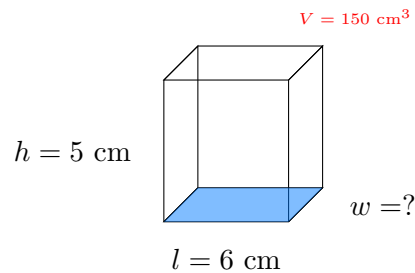
 A. 48 B. 4,800 C. 4.8 D. 0.48

3) A composite classroom model is made from two non-overlapping rectangular prisms. Prism A is 5 inches long, 4 inches wide, and 5 inches tall. Prism B is 6 inches long, 4 inches wide, and 3 inches tall. What is the total volume?

 A. 100 cubic inches B. 172 cubic inches C. 72 cubic inches D. 192 cubic inches

4) Maria is mixing fruit punch. She needs 2 cups of juice. She already measured 1 cup 4 fluid ounces. How much more juice does she need to add?

Use: 1 cup = 8 fluid ounces

 A. 4 fluid ounces B. 8 fluid ounces C. 12 fluid ounces D. 16 fluid ounces

5)

Find the width.

 A. 5 cm B. 6 cm C. 25 cm D. 30 cm

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 B is correct.** (5.N.3) Common denominator is 15. $\frac{2}{5} = \frac{6}{15}$ and $\frac{1}{3} = \frac{5}{15}$. Since $6 > 5$, $\frac{2}{5} > \frac{1}{3}$.
- 2) **Choice D is correct.** (5.N.3) Align decimals: $3.40 + 0.27$. Hundredths: $0 + 7 = 7$; tenths: $4 + 2 = 6$; ones: $3 + 0 = 3$. Sum is 3.67.
- 3) **Choice A is correct.** (5.N.3) Index 1: 2. Index 2: $2 + 3 = 5$. Index 3: $5 + 3 = 8$. Index 4: $8 + 3 = 11$.
- 4) **Choice C is correct.** (5.G.4) $\frac{4}{5}$ is close to 1, and $\frac{1}{6}$ is close to 0. So $\frac{4}{5} + \frac{1}{6} \approx 1 + 0 = 1$.
- 5) **Choice B is correct.** (5.N.3) $912 \div 19 = 48$. Check: $19 \times 48 = 912$.
- 6) **Choice C is correct.** (5.N.3) Check: $\frac{4}{8}$ reduces to $\frac{1}{2}$; $\frac{3}{6}$ reduces to $\frac{1}{2}$; $\frac{5}{7}$ has GCF=1 (simplest); $\frac{2}{10}$ reduces to $\frac{1}{5}$.
- 7) **Choice B is correct.** (5.A.1) Volume is always measured in cubic units (three dimensions), not square units (two dimensions) or linear units (one dimension).
- 8) **Choice C is correct.** (5.N.2) $0.29 \times 1000 = 290$. Moving the decimal 3 places right requires multiplying by 10^3 .
- 9) **Choice A is correct.** (5.G.1) The top and bottom sides are parallel, but the left and right sides are not parallel. So the figure has exactly one pair of parallel sides.
- 10) **Choice A is correct.** (5.N.3) $\frac{1}{2} = \frac{4}{8}$, so $\frac{4}{8} + \frac{3}{8} = \frac{7}{8}$. Options B and C have like denominators; option D equals $\frac{5}{8}$.
- 11) **Choice C is correct.** (5.G.1) Small: $3 \times 2 \times 8 = 48$ cubic feet. Large: $4 \times 3 \times 8 = 96$ cubic feet. Difference: $96 - 48 = 48$ cubic feet.
- 12) **Choice D is correct.** (5.N.3) Total cost: $24.99 + 18.50 = 43.49$ dollars. Change: $50.00 - 43.49 = 6.51$ dollars.
- 13) **Choice C is correct.** (5.G.1) By definition, a rhombus has all four sides of equal length.
- 14) **Choice C is correct.** (5.G.3) First convert yards to feet: 3 yards = 9 feet. Add 2 feet to get 11 feet. Then convert to inches: $11 \times 12 = 132$ inches.
- 15) **Choice D is correct.** (5.N.3) Multiplying 0.07 by 10 shifts the decimal point one place to the right: $0.07 \times 10 = 0.7$.
- 16) **Choice C is correct.** (5.N.3) $6 \times 4 = 24$ unit cubes total (6 cubes per layer, 4 layers).
- 17) **Choice A is correct.** (5.A.1) To make 20, group the addition first: $(6 + 4) \times 2 = 10 \times 2 = 20$. The other choices give different values, so A is the only match.
- 18) **Choice B is correct.** (5.D.1) Count X marks above 1 and 2 inches only. There are 2 marks at 1 inch and 1 mark at 2 inches, totaling 3 cars less than 3 inches.
- 19) **Choice C is correct.** (5.D.2) The base layer has $5 \times 3 = 15$ square units. Divide the volume by the base area: $30 \div 15 = 2$, so the height is 2 feet.
- 20) **Choices A, B are correct.** (5.D.2) 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.
- 21) **Choice B is correct.** (5.N.3) $4.2 \times 0.5 = 2.1$. Multiply: $42 \times 5 = 210$, then place decimal two places from right: 2.10 = 2.1.
- 22) **Choice B is correct.** (5.N.3) Add: $2\frac{3}{4} + 1\frac{1}{4} = 3\frac{4}{4} = 4$ cups.
- 23) **Choice D is correct.** (5.N.3) Each row shows $\frac{2}{5}$. Three rows make $3 \times \frac{2}{5} = \frac{6}{5}$, which is one whole and one fifth more.
- 24) **Choice A is correct.** (5.N.3) Borrow 1 from 6: $5\frac{7}{5} - 3\frac{4}{5} = 2\frac{3}{5}$.
- 25) **Choice A is correct.** (5.N.2) $47 \times 1000 = 47000$. Append three zeros to the right.
- 26) **The correct answer is 4.62.** (5.N.2) Line up decimal points and subtract place by place. $7.00 - 2.38 = 4.62$. This confirms the answer.
- 27) **Choice B is correct.** (5.N.3) Add the four partial products: $(20 \times 10) + (5 \times 10) + (20 \times 3) + (5 \times 3) = 200 + 50 + 60 + 15 = 325$.
- 28) **Choice B is correct.** (5.N.3) $2\frac{1}{4} = \frac{9}{4}$ and $1\frac{1}{5} = \frac{6}{5}$. Multiply: $\frac{9}{4} \times \frac{6}{5} = \frac{54}{20} = 2\frac{14}{20} = 2\frac{7}{10}$ cups.
- 29) **The correct answer is 625.** (5.N.3) Read the place value to decide whether the decimal uses tenths, hundredths, or thousandths. 0.625 is 625 thousandths. This confirms the answer.
- 30) **Choice A is correct.** (5.N.3) The first prism is $6 \times 4 \times 4 = 96$ cubic meters. The second is $6 \times 4 \times 3 = 72$ cubic meters. Together they make 168 cubic meters.
- 31) **The correct answer is $\frac{1}{2}$.** (5.N.3) Multiply across: $\frac{2 \times 3}{3 \times 4} = \frac{6}{12}$. Then simplify $\frac{6}{12}$ to $\frac{1}{2}$.



Captain of Your Own Math Plane,

◇ 8 practice tests behind you. That's many flights logged in your math airplane. You've handled clear weather, turbulence, tricky landings, and long routes. You're a real pilot now. ◇

★ **Pilots know:** a good pre-flight check makes for a good flight. Before each test problem, do your check: read the question, look at the numbers, pick a strategy. That short check makes the rest of the flight smooth. ★

Flight Crew Skills

- **Pre-flight Check:** CONSISTENT! You read questions carefully.
- **Navigation:** STRONG! You pick a clear strategy.
- **Steady Flight:** STEADY! You stay calm through long tests.
- **Landing:** SHARP! You always check your final answer.

Pilot's tip: on test day, don't fly the whole flight in your head before takeoff. Just take off. Then handle one problem at a time. Trust your training. You've earned your wings.

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 Pilot (Clear Skies Ahead)

$45 \div 5 = ?$

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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Strengthens problem-solving abilities and reinforces key math concepts.



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Identify strengths and focus on areas that need improvement.



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