

# 10 COMPLETE Nebraska

## NSCAS Growth

# GRADE 5

# MATH PRACTICE TESTS

Standards-Based Review with  
Mixed Practice and Detailed Answer Key



### 10 Complete Practice Tests

Build confidence and test readiness



### Standards-Based Review

Covers key Grade 5 math standards



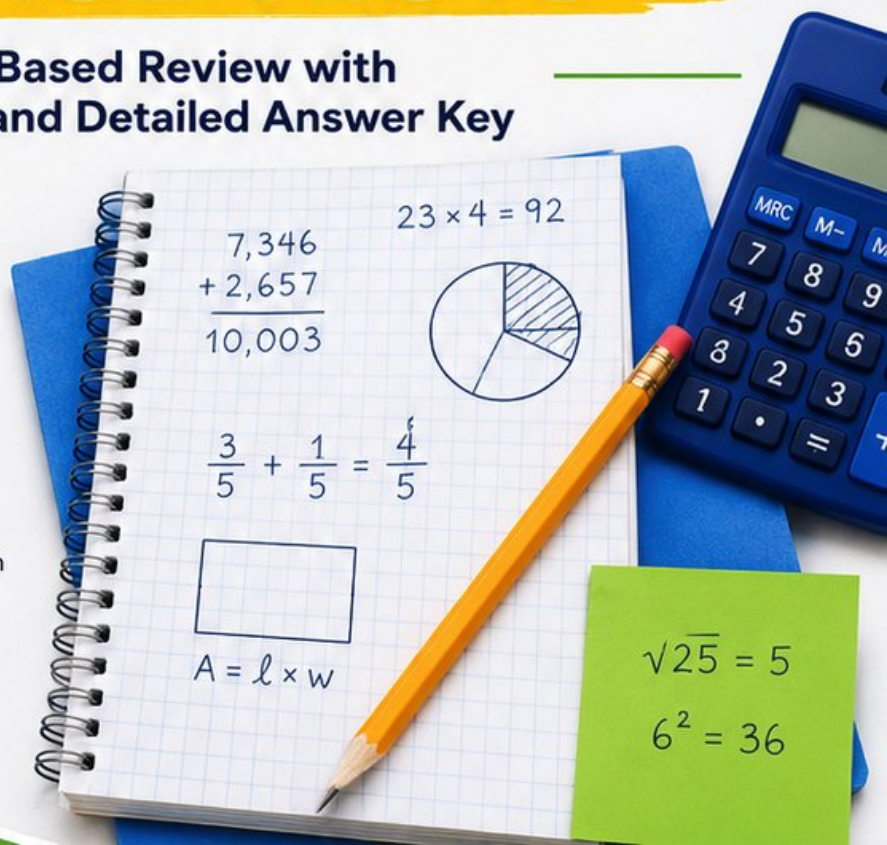
### Mixed Practice

Variety of question types to strengthen skills



### Detailed Answer Key

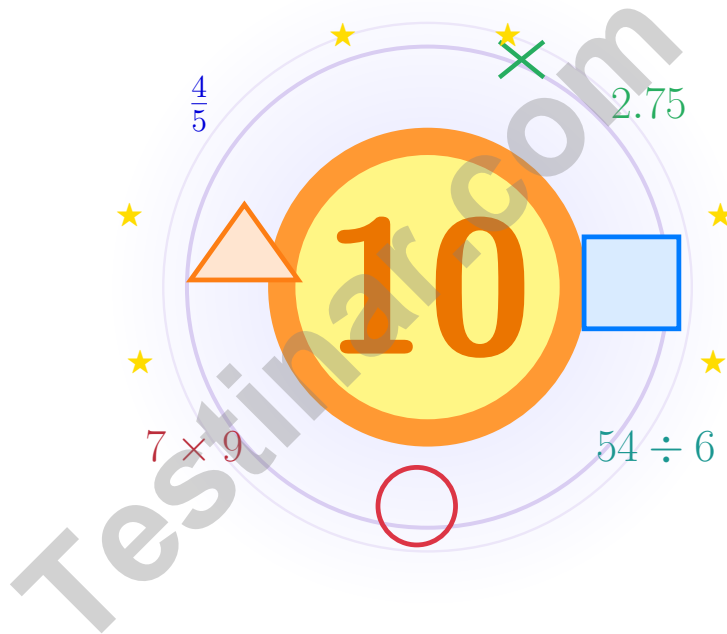
Step-by-step explanations for every question



**PREPARE.  
PRACTICE.  
SUCCEED!**

# 10 Nebraska NSCAS Grade 5 Math Practice Tests

*Bright review, thoughtful practice, and steady confidence for Grade 5*



Ten full tests, a focused quick review, and student-friendly support that keeps practice clear and encouraging.

**Jay Daie and Reza Nazari**



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# Welcome!

This book is a place to practice bravely and think clearly

## Dear Grade 5 Mathematician

This book gives you ten chances to read carefully, solve thoughtfully, and build steady math confidence. Some problems will feel friendly right away. Some will take more patience. Both kinds help you grow.

The goal is not to feel perfect before you begin. The goal is to practice honest effort, learn from corrections, and notice how much stronger your thinking becomes over time.

### Read

Slow down and understand the task.

### Solve

Show clear steps and good choices.

### Learn

Use mistakes as clues for what comes next.

**A strong habit from the start:** keep your work neat, estimate when it helps, write units carefully, and do not let one hard problem decide your mood for the whole page.



# How to Use This Book

A simple routine that turns practice into real progress

## Step 1

**Warm up with the quick review.**

Spend a few minutes refreshing the ideas before the test begins.

## Step 2

**Take one full practice test.**

Work in a calm spot and aim for careful thinking before speed.

## Step 3

**Check your work honestly.**

Circle missed questions and notice which skills need another look.

## Step 4

**Fix and reflect.**

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



**A Good 10-Week Rhythm**

<b>Week 1</b>	Take Test 1 and notice your starting strengths.
<b>Week 2</b>	Take Test 2 and slow down on word problems.
<b>Week 3</b>	Take Test 3 and sharpen multiplication and division checks.
<b>Week 4</b>	Take Test 4 and focus on fractions and decimals.
<b>Week 5</b>	Take Test 5 and watch your labels and units closely.
<b>Week 6</b>	Take Test 6 and practice calmer pacing.
<b>Week 7</b>	Take Test 7 and compare your habits with the earlier weeks.
<b>Week 8</b>	Take Test 8 and focus on tidy, checkable work.
<b>Week 9</b>	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
<b>Week 10</b>	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



# Table of Contents

★ Practice Test 1	_____	19
★ Practice Test 2	_____	35
★ Practice Test 3	_____	51
★ Practice Test 4	_____	67
★ Practice Test 5	_____	82
★ Practice Test 6	_____	96
★ Practice Test 7	_____	110
★ Practice Test 8	_____	123
★ Practice Test 9	_____	136
★ Practice Test 10	_____	149
<b>Practice Test Answer Keys</b>	_____	<b>164</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>170</b>

## 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) Which rectangular prism has a volume less than 200 cubic inches?

Prism	Length	Width	Height
P	10	5	4
Q	8	6	4
R	9	5	5
S	7	6	5

- A. Prism P  
 B. Prism Q  
 C. Prism R  
 D. Prism S
- 2) A fence is 72 feet long. Posts are placed every 8 feet. How many posts are needed if posts go at the beginning and end?



- A. 9 posts  
 B. 8 posts  
 C. 10 posts  
 D. 11 posts
- 3) A juice container holds 6 liters. Each family receives  $\frac{1}{4}$  liter. How many families can receive juice?
- A. 24 families  
 B. 20 families  
 C. 18 families  
 D. 12 families





## Grade 5 Mathematics Reference Materials

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1 day = 24 hours (hr)

1 year = 52 weeks



1) A storage box has volume  $360 \text{ cm}^3$ , length 12 cm, and height 5 cm. What is the width?

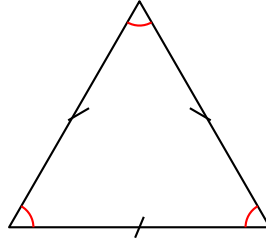
A. 4 cm

C. 6 cm

B. 5 cm

D. 7 cm

2) Look at the angle marks and side marks on the triangle. Which type of triangle is shown?



All angles and sides marked the same

A. Scalene

C. Equilateral

B. Isosceles

D. Right

3) Look at the table. Which expression has the greatest value without evaluating?

Letter	Expression
A	$(75 + 25) \times 10$
B	$(75 + 25) \times 5$
C	$(75 + 25)$
D	$(75 + 25) \div 2$

A. A

C. C

B. B

D. D



37) A garden plot uses  $\frac{2}{5}$  of the yard for vegetables and  $\frac{1}{6}$  for flowers. What fraction is used together?

- A.  $\frac{3}{11}$   
 B.  $\frac{17}{30}$

- C.  $\frac{3}{30}$   
 D.  $\frac{7}{30}$

38) A town saves \$1000 per month from its budget. How much is saved in 16 months?

Monthly Savings

\$1000/month  $\longrightarrow$   $\times 16$  months

- A. \$16000  
 B. \$17000

- C. \$160000  
 D. \$1600

39) A number is represented as  $4 + \frac{2}{10} + \frac{5}{100} + \frac{8}{1000}$ . What is this number in decimal form?

- A. 4.258  
 B. 4.028

- C. 4.852  
 D. 4.528

40) What is  $\frac{1}{3} \div 4$ ?

- A.  $\frac{1}{12}$   
 B.  $\frac{1}{6}$

- C.  $\frac{4}{3}$   
 D.  $\frac{3}{4}$

## End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



Grade 5 Mathematics

10

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



## 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.A.1) P:  $10 \times 5 \times 4 = 200$ . Q:  $8 \times 6 \times 4 = 192$  (less than 200). R: 225. S: 210. Only Q is less than 200.
- Choice C is correct.** (5.A.1) Number of sections:  $72 \div 8 = 9$ . Posts needed:  $9 + 1 = 10$  (one at each end and one at each division between sections).
- Choice A is correct.** (5.N.3) Each liter has four quarter-liter servings.  $6 \div \frac{1}{4} = 6 \times 4 = 24$  families.
- Choice B is correct.** (5.N.3)  $3 \div \frac{1}{2} = 3 \times 2 = 6$ . She gets 6 pieces.
- Choice C is correct.** (5.D.1) Greatest value is 6, least is 1. Range =  $6 - 1 = 5$ .
- Choice C is correct.** (5.N.2) Since  $\frac{1}{4} < \frac{1}{2}$ , the product  $10 \times \frac{1}{4}$  is smaller.  $10 \times \frac{1}{4} = 2\frac{1}{2}$  and  $10 \times \frac{1}{2} = 5$ .
- Choice C is correct.** (5.A.1) First find the value inside the parentheses:  $4 + 6 = 10$ . Then  $3 \times 10 = 30$ , and  $60 - 30 = 30$ .
- Choice D is correct.** (5.N.2)  $0.073 \times 100 = 7.3$  because each digit shifts 2 places toward greater place values.
- Choice A is correct.** (5.A.1)  $V = 16 \times 5 \times 3 = 240 \text{ in}^3$ .
- Choice C is correct.** (5.A.1) Add the costs shown by the marks:  $(2 \times 2) + (4 \times 3) + (6 \times 2) + (8 \times 3) = 4 + 12 + 12 + 24 = 52$ , so the total cost is \$52.
- The correct answer is 24.** (5.G.1) Think of the prism as layers of cubes. Each layer has  $4 \times 3 = 12$  cubes, and 2 layers make  $12 \times 2 = 24$  unit cubes.
- Choice B is correct.** (5.N.3) Hundredths:  $5 + 8 = 13$  (regroup 1 tenth); tenths:  $7 + 6 + 1 = 14$  (regroup 1 one); ones:  $2 + 3 + 1 = 6$ . Sum is 6.43.
- The correct answer is 114 m<sup>3</sup>.** (5.G.1) The first prism is  $7 \times 3 \times 4 = 84$  cubic meters. The second is  $5 \times 3 \times 2 = 30$  cubic meters. Together they make 114 cubic meters.
- The correct answer is 24.** (5.N.3) Each cup contains 4 fourth-cup scoops, so 6 cups contain  $6 \times 4 = 24$  scoops.
- Choice B is correct.** (5.G.4)  $\frac{6}{7} \approx 1$ ,  $\frac{4}{9} \approx \frac{1}{2}$ , and  $\frac{1}{10} \approx 0$ . So  $\frac{6}{7} + \frac{4}{9} + \frac{1}{10} \approx 1 + \frac{1}{2} + 0 = 1\frac{1}{2}$ .
- Choice D is correct.** (5.N.3)  $5.4 \div 6 = 0.9$ . Divide:  $54 \div 6 = 9$ , then place decimal one place from right: 0.9 lb.
- Choice A is correct.** (5.G.4) The base has  $6 \times 4 = 24$  unit cubes. Since  $48 \div 24 = 2$ , the prism has 2 layers, so the height is 2 units.
- Choices A, B are correct.** (5.N.2)  $4.7 \div 10$  and  $47 \div 100$  both equal 0.47. C and D each give 0.047.
- Choice C is correct.** (5.G.2) A point directly above Point A has the same x-coordinate but a larger y-coordinate. Of the choices, only (3, 9) has  $x = 3$  and a y-value greater than 5.
- Choice C is correct.** (5.G.2) Point A is at (4, 5). Moving 3 units to the right adds 3 to the x-coordinate:  $4 + 3 = 7$ . The y-coordinate stays 5. So point B is at (7, 5).
- Choice D is correct.** (5.A.1) Compute each volume:  $A = 5 \times 6 \times 7 = 210$ ;  $B = 4 \times 6 \times 10 = 240$ ;  $C = 3 \times 7 \times 10 = 210$ ;  $D = 4 \times 8 \times 7 = 224$ . Only B gives  $240 \text{ in}^3$ .
- Choice D is correct.** (5.G.1) Figure D is a rhombus with no right angles. It has two pairs of parallel sides, so it is a parallelogram, but it is not a rectangle.
- Choice D is correct.** (5.A.1) The model has 6 equal parts and 1 part is double-shaded, so the product is  $\frac{1}{6}$ .
- Choice B is correct.** (5.N.3) There are 5 groups of  $\frac{2}{7}$ , so multiply  $5 \times 2$  in the numerator:  $5 \times \frac{2}{7} = \frac{10}{7} = 1\frac{3}{7}$ .
- The correct answer is  $\frac{7}{12}$ .** (5.N.3) LCD = 12.  $\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$ .
- Choice D is correct.** (5.D.2) Expression Y is two copies of Expression X:  $(11 + 4) + (11 + 4)$ . Two copies of the same amount means Y is 2 times X.
- Choice D is correct.** (5.G.4) The two sides with tick marks are equal, making this an isosceles triangle.
- Choice B is correct.** (5.N.2)  $\frac{7}{8} - \frac{3}{8} = \frac{4}{8}$ . This simplifies to  $\frac{1}{2}$  yard of ribbon.
- Choice D is correct.** (5.N.3) The tenths digit is 3. The hundredths digit is 4. Since  $4 < 5$ , keep tenths as 3: 11.348  $\rightarrow$  11.3. Maya is correct.
- The correct answer is 24.** (5.A.1) Left:  $50 - 20 = 30$ ,  $30 \div 5 = 6$ . Right:  $2 + 4 = 6$ ,  $3 \times 6 = 18$ . Sum:  $6 + 18 = 24$ .



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**Star Player Pep Talk**

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**To My Star Math Player,**

◇ 10 practice tests. Every one of them was a chance to grow, and every one of them you took. That's why your math game is at a new level today. ◇

★ **Star players know:** confidence comes from preparation. You can't fake confidence. You build it. You built yours through these 10 tests. So when test day shows up, your confidence will be real, because your work was real. ★

**Star Player Stats**

- **Practice Hours:** OFF THE CHARTS!
- **Skill Range:** BROAD! You can handle different problem types.
- **Mental Toughness:** HIGH! You don't quit on hard problems.
- **Game-Day Plan:** READY! You know your strategies.

**Star tip:** the best players don't try to be perfect on every play. They focus on the next play. Do that on the test. One problem at a time. One small win at a time. You add them up to a great score.

If you'd like to share your experience or have questions, please email me at [reza@testinar.com](mailto:reza@testinar.com). I'd love to hear from you!

**Reza Nazari & Jay Daie**

Your Math Coaches (Go Star!)

# PRACTICE TODAY. MASTER TOMORROW.

Give your child the confidence to excel in **Grade 5 Math!**  
This book includes **10 complete practice tests** designed to build strong skills, improve test readiness, and achieve success.



# 10

COMPLETE  
PRACTICE  
TESTS

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### Strengthen Skills

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- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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