

10 COMPLETE

North Dakota

NDSA

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



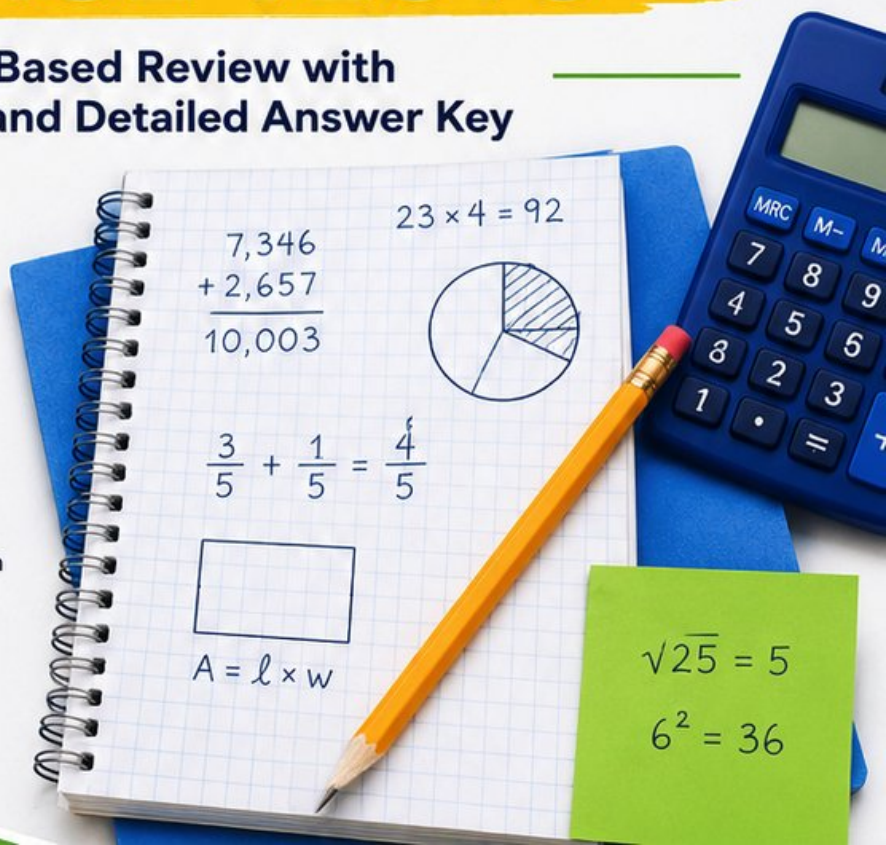
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

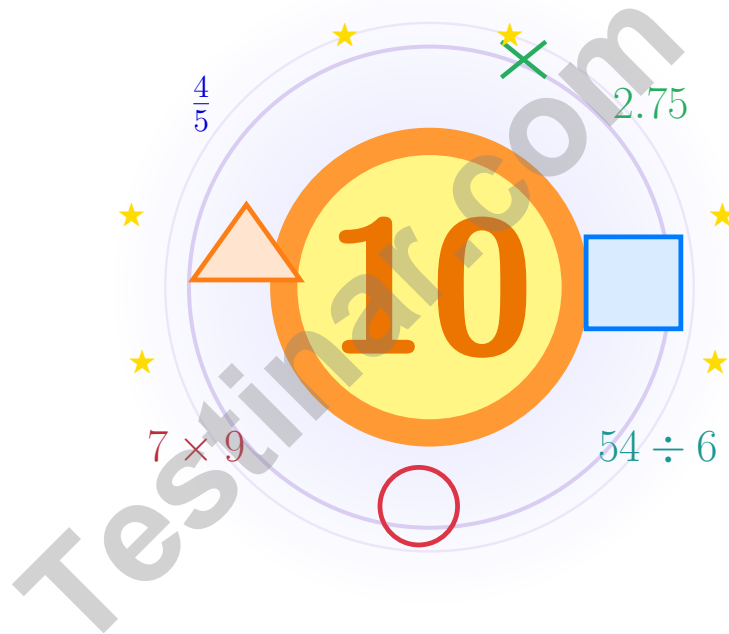
Step-by-step explanations for every question



PREPARE.
PRACTICE.
SUCCEED!

10 North Dakota NDSA 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.



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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

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



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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

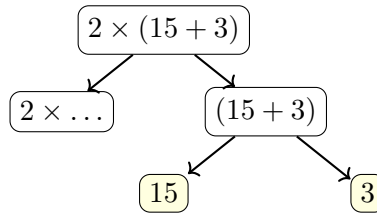
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

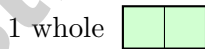
1 day = 24 hours (hr) 1 year = 52 weeks



- 1) A tree diagram breaks down the expression $2 \times (15 + 3)$. Which labels the product of 15 and 3?



- A. $2 \times \dots$
 D. This expression has no product of 15 and 3
 B. $(15 + 3)$
 C. 15
- 2) Two patterns start with the same first value of 4. Pattern C increases by 2 each step. Pattern D increases by 5 each step. After 3 increases, what is the difference between Pattern D and Pattern C?
- A. 3
 C. 9
 B. 6
 D. 12
- 3) The model shows 1 whole cut into pieces of size $\frac{1}{2}$. How many pieces of size $\frac{1}{2}$ are there in all?

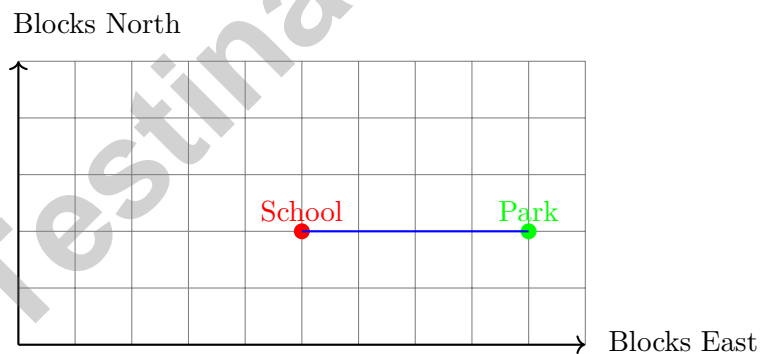


1 whole cut into pieces of size $\frac{1}{2}$

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



- 4) A store sells ribbon by the meter. One spool has 5.5 meters. If each customer buys one half meter, or 0.5 meter, how many customers can be served from one spool?
- A. 9 customers C. 12 customers
 B. 10 customers D. 11 customers
- 5) What is 156×6 ?
- A. 900 C. 936
 B. 912 D. 948
- 6) A science lab measures a sample with a mass of 15.375 grams. What is the digit in the hundredths place?
- A. 1 C. 7
 B. 3 D. 5
- 7) A coordinate grid shows that a school is at (5, 2) and the park is at (9, 2). What can you say about these two locations?



- A. They are on the same vertical line C. They are 7 blocks apart
 B. They are on the same horizontal line D. They are in different quadrants



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TIME

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

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



1) Add: $\frac{3}{8} + \frac{1}{4}$

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

B. $\frac{4}{12}$

C. $\frac{4}{8}$

D. $\frac{1}{2}$

2) Without calculating both products, which expression has the larger value?

A: $\frac{2}{3} \times 24$ B: $\frac{4}{5} \times 24$

*Record A or B in the space provided.*3) Without calculating, compare: $(240 + 87) \times 4$ $(240 + 87) \times 2$

A. $>$

B. $<$

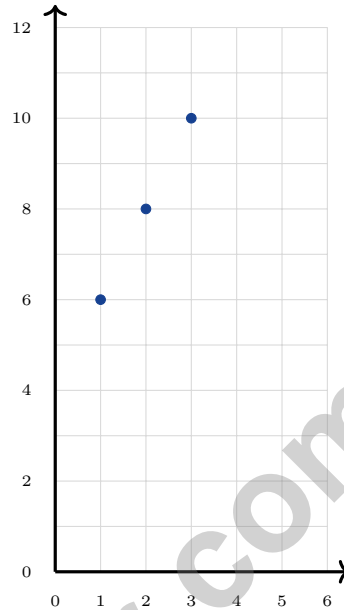
C. $=$

 D. Cannot tell

4) Carlos says 3 pounds = 48 ounces. Is Carlos correct?

 A. He is correct B. He divided instead of multiplied C. 3 pounds = 32 ounces D. 3 pounds = 64 ounces

- 39) A pattern has points (1, 6), (2, 8), and (3, 10). If the pattern continues, what is the y -value when $x = 4$?



- A. 10
- B. 11
- C. 12
- D. 14
- 40) What is $20 \div \frac{1}{2}$?
- A. $\frac{1}{40}$
- B. 10
- C. 40
- D. 80

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 D is correct.** (5.AR.OA.3) The tree shows 15 and 3 being added inside $(15 + 3)$. The multiplication is by 2, so there is no product of 15 and 3 in this expression.
- Choice C is correct.** (5.AR.OA.5) After 3 increases, Pattern C is $4 + 2 + 2 + 2 = 10$ and Pattern D is $4 + 5 + 5 + 5 = 19$. The difference is $19 - 10 = 9$.
- Choice C is correct.** (5.NO.NF.4) Each whole contains 2 pieces of size $\frac{1}{2}$. With 1 whole, there are $1 \times 2 = 2$ pieces.
- Choice D is correct.** (5.NO.NBT.5) Each meter has two half-meter pieces. So 5.5 meters has $5.5 \times 2 = 11$ half-meter pieces, enough for 11 customers.
- Choice C is correct.** (5.NO.NBT.4) Multiply: $156 \times 6 = (100 \times 6) + (50 \times 6) + (6 \times 6) = 600 + 300 + 36 = 936$.
- Choice C is correct.** (5.NO.NBT.1) In 15.375, the decimal digits are: 3 (tenths), 7 (hundredths), 5 (thousandths). The digit in the hundredths place is 7.
- Choice B is correct.** (5.AR.OA.5) Both points share the same y-coordinate (2), so they lie on a horizontal line. The distance is $9 - 5 = 4$ blocks east.
- Choice C is correct.** (5.NO.NF.3) $\frac{1}{4} = \frac{3}{12}$. $\frac{11}{12} - \frac{3}{12} = \frac{8}{12} = \frac{2}{3}$.
- Choice B is correct.** (5.NO.NF.3) Multiples of 9: 9, 18, 27, 36, ... Multiples of 12: 12, 24, 36, ... The first common multiple is 36, so the LCD is 36.
- Choice C is correct.** (5.NO.CC.1) Maya ignored the 0 in the tenths place. The correct reading is “three and nine hundredths”, not “three and nine tenths”.
- Choice C is correct.** (5.DPS.D.1) Total: $8.5 + 12.3 + 9.7 + 10.5 = 41.0$ kg.
- Choice A is correct.** (5.NO.NBT.7) Multiplying by 10 moves the decimal one place right, so 5.09 becomes 50.9.
- The correct answer is 1.00.** (5.NO.NBT.5) Line up decimal points and add place by place. $0.92 + 0.08 = 1.00$. This confirms the answer.
- Choice A is correct.** (5.GM.G.3) Add 2: 0, 2, 4, 6, 8... Add 4: 0, 4, 8, 12, 16... Each term of “add 4” is 2 times “add 2”.
- Choice D is correct.** (5.GM.M.3) The base area is $10 \times 9 = 90$ square inches. Since $360 \div 90 = 4$, the height is 4 inches.
- Choice B is correct.** (5.NO.NBT.2) $2.54 > 2.45$ because 5 tenths $>$ 4 tenths. The second piece is longer.
- Choice B is correct.** (5.GM.M.3) The base area is $7 \times 6 = 42$ square inches. Since $210 \div 42 = 5$, the height is 5 in.
- The correct answer is 20.** (5.NO.NF.4) $5 \div \frac{1}{4} = 20$. Each pound makes 4 quarter-pound loaves, so 5 pounds makes 20 loaves.
- Choice A is correct.** (5.NO.NBT.6) If $816 \div 17 = 48$, then 408 (half of 816) divided by 17 gives half the quotient: $408 \div 17 = 24$.
- Choices A, B are correct.** (5.NO.NBT.7) $7 \times 10^2 = 700$ and $23 \times 10^3 = 23,000$. C should be 50,000, and D should be 600.
- Choice D is correct.** (5.NO.NF.4) Five laps means 5 copies of $\frac{3}{8}$ mile. $5 \times \frac{3}{8} = \frac{15}{8} = 1\frac{7}{8}$ miles.
- Choice B is correct.** (5.NO.NBT.7) The first factor stays 6. When the multiplier is 10,000, the product is 6 followed by four zeros: 60,000.
- Choice D is correct.** (5.GM.G.3) The first three points have second coordinates 3 more than the first. For (4, 8), $4 + 3 = 7$, not 8.
- Choice A is correct.** (5.NO.NF.4) The fractions need a common denominator: $\frac{1}{4} = \frac{3}{12}$ and $\frac{2}{3} = \frac{8}{12}$, so the correct sum is $\frac{11}{12}$. The student incorrectly added both numerators and denominators.
- Choice A is correct.** (5.NO.NBT.7) To find the missing number, divide: $3.7 \div 100 = 0.037$.
- Choice D is correct.** (5.GM.M.3) The prism shows dimensions of length 3, width 1, and height 2. Volume: $3 \times 1 \times 2 = 6$ cubic units.
- Choice B is correct.** (5.NO.NF.3) $\frac{2 \times 3}{5 \times 3} = \frac{6}{15}$.
- Choice D is correct.** (5.NO.NBT.7) Dividing by 10 makes each part one tenth as large. Move the decimal 1 place left: $0.8 \div 10 = 0.08$, so each part is 0.08 meter long.



Lab Notes for a Future Scientist

Dear Curious Scientist,

◇ 10 tests. Many experiments. Tons of data. You've been running a research project on yourself, and the results are clear: you are better at math today than you were when you started. That's what science calls progress, and you earned it. ◇

★ **What scientists know:** a failed experiment is still useful data. Every problem you missed taught you something. You used that data to adjust, retry, and improve. That's how science works. That's how you've been working. ★

Lab Results

- **Hypothesis:** CONFIRMED. Effort + practice = real growth.
- **Method:** STRONG. You try strategies, observe what works, and adjust.
- **Data Collection:** CAREFUL. You read carefully and copy numbers exactly.
- **Conclusion:** CONFIDENT. You're test-ready.

Scientist's tip: curious minds make great test-takers. On test day, be curious about each question. Ask, "What is this asking?" Ask, "What's the smartest way?" Then experiment, observe, and answer. You will do great.

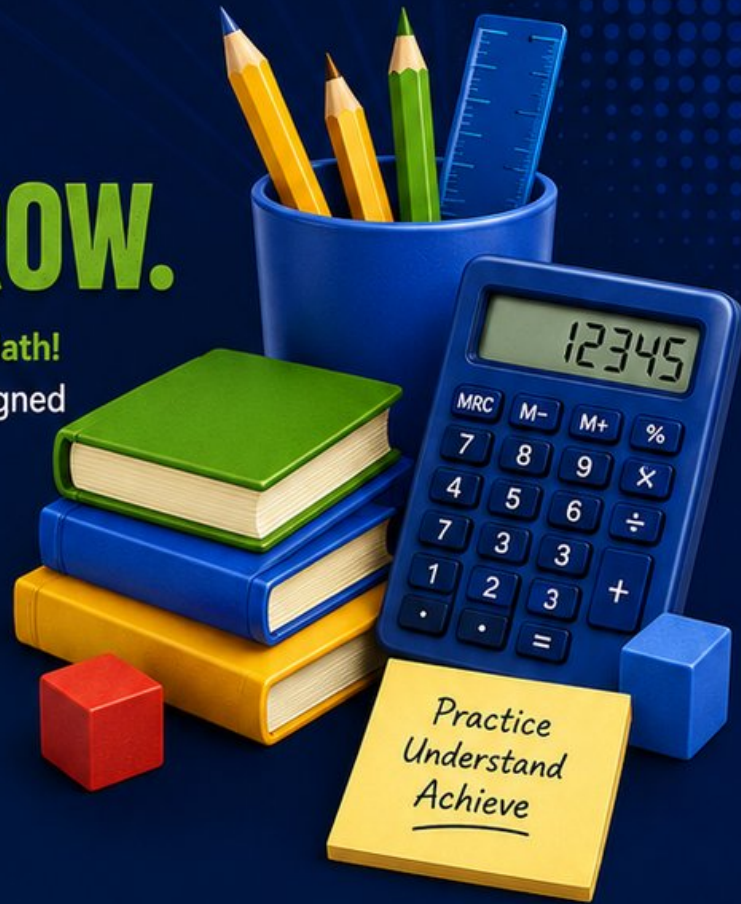
If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

Jay Daie

Your Math Scientist (Keep Questioning)

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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COVERS ALL ESSENTIAL TOPICS

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



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