

10 COMPLETE

South Dakota

Smarter Balanced

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



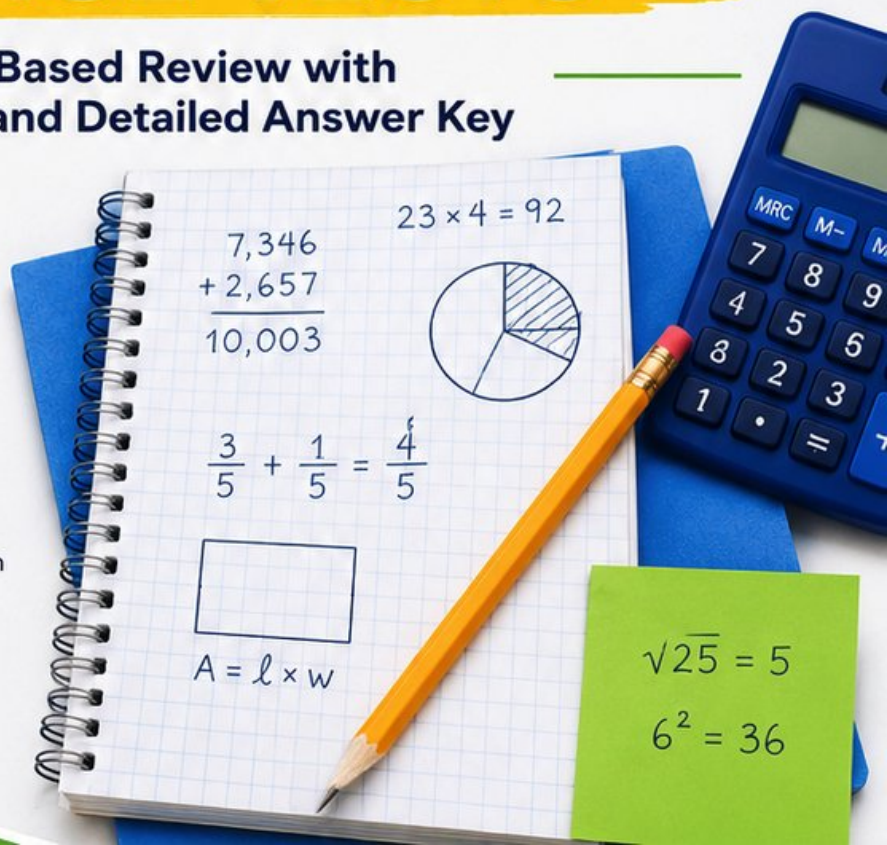
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

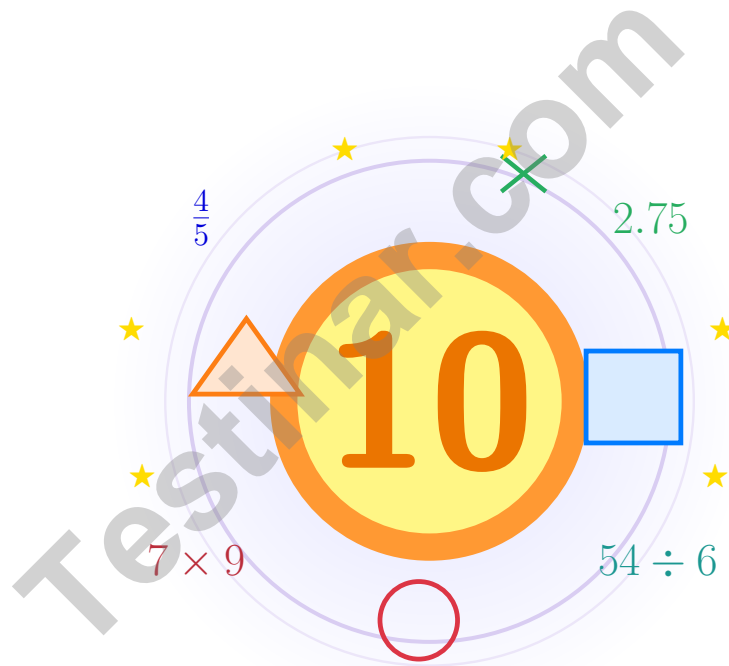
Step-by-step explanations for every question



PREPARE.
PRACTICE.
SUCCEED!

10 South Dakota Smarter Balanced 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.



Scan me

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.



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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 model shows $\frac{1}{4}$ of a whole split into 3 equal parts. What fraction of the whole is each small part?

$\frac{1}{4}$ split into 3



1 whole split into 4 equal parts

- A. $\frac{1}{4}$
 C. $\frac{1}{7}$
 B. $\frac{1}{3}$
 D. $\frac{1}{12}$
- 2) A concert hall has 39 sections with 28 seats in each section. How many seats are in the concert hall?
- A. 1,080
 C. 1,100
 B. 1,110
 D. 1,092

no right angles



- 3) opposite sides are parallel

The opposite sides are parallel, and no angles are right angles. Which statement is TRUE?

- A. This must be a rectangle because it has four sides.
 C. This is a trapezoid because sides are not equal.
 B. This cannot be a quadrilateral.
 D. This is a parallelogram but NOT a rectangle.



- 4) 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
- 5) Compare: $12.5 \div 100$ and $125 \div 1000$. Which is true?
- A. $12.5 \div 100 > 125 \div 1000$
- B. $12.5 \div 100 < 125 \div 1000$
- C. $12.5 \div 100 = 125 \div 1000$
- D. Cannot compare
- 6) Find: $\frac{5}{6} \times \frac{3}{10}$.

Record your answer in the space provided.

- 7) Two students add $5.48 + 3.26$.
Maya's work: Aligns decimals, gets 8.74. Chen's work: Aligns decimals, gets 8.64.
Who is correct?
- A. Maya
- B. Chen
- C. Neither; the sum is 8.84.
- D. Neither; the sum is 9.74.



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	Metric
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
1 yard (yd) = 3 feet (ft)	1 centimeter (cm) = 10 millimeters (mm)
1 yard (yd) = 36 inches (in.)	1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary	Metric
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (L) = 1,000 milliliters (mL)
1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	

WEIGHT AND MASS

Customary	Metric
1 pound (lb) = 16 ounces (oz)	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

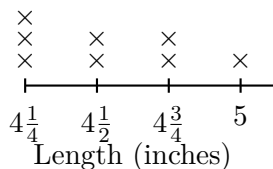


1) Pattern table:

x	y
1	2
2	5
3	8
4	?

What is the rule and the missing output?

- A. Multiply the input by 3, then subtract 1; output 11
- B. Add 1 to the input; output 5
- C. Double the input; output 8
- D. Multiply the input by 3; output 12
- 2) A triangle has side lengths 6 cm, 6 cm, and 6 cm. Each angle measures 60° . Which classification describes the triangle by both side lengths and angle measures?
- A. Equilateral and obtuse C. Scalene and acute
- B. Isosceles and right D. Equilateral and acute
- 3) The line plot shows 8 pencil lengths, in inches. What length appears most often?



Record your answer in the space provided.



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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.NF.6) Start with one unit fraction, $\frac{1}{4}$, and share it into 3 equal parts. Each part is $\frac{1}{4} \div 3 = \frac{1}{12}$ of the whole.
- Choice D is correct.** (5.NBT.5) Multiply: $39 \times 28 = 39 \times (30 - 2) = (39 \times 30) - (39 \times 2) = 1,170 - 78 = 1,092$ seats.
- Choice D is correct.** (5.G.4) The opposite sides are parallel, so the figure is a parallelogram. Since no angles are right angles, it is not a rectangle.
- Choice B is correct.** (5.MD.4) 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.NBT.2) $12.5 \div 100 = 0.125$ and $125 \div 1000 = 0.125$. Both quotients are equal.
- The correct answer is $\frac{1}{4}$.** (5.NF.6) Multiply first: $\frac{5 \times 3}{6 \times 10} = \frac{15}{60}$. Since 15 is one fourth of 60, the product is $\frac{1}{4}$.
- Choice A is correct.** (5.NBT.7) 5.48 + 3.26: hundredths 8 + 6 = 14 (regroup); tenths 4 + 2 + 1 = 7; ones 5 + 3 = 8. Sum is 8.74. Maya is correct.
- Choice A is correct.** (5.NF.6) The unit fraction is the amount being shared, so divide $\frac{1}{10}$ by 2. The equation is $\frac{1}{10} \div 2 = n$.
- Choice A is correct.** (5.NF.1) $8 = 7\frac{5}{5}$. Then $7\frac{5}{5} - 2\frac{3}{5} = 5\frac{2}{5}$.
- Choice C is correct.** (5.OA.1) First find the value inside the parentheses: $4 + 6 = 10$. Then $3 \times 10 = 30$, and $60 - 30 = 30$.
- The correct answer is 90.** (5.NBT.2) Dividing by 1,000 removes three zeros: $90,000 \rightarrow 90$.
- Choice A is correct.** (5.NF.1) LCD of 6 and 4 is 12. $\frac{1}{6} = \frac{2}{12}$ and $\frac{1}{4} = \frac{3}{12}$.
- Choice C is correct.** (5.MD.5) The known width and height make groups of $3 \times 8 = 24$ cubic centimeters. Since $168 \div 24 = 7$, the length is 7 cm.
- Choice C is correct.** (5.NF.2) Add the amounts shown: $\frac{1}{4} + 2(\frac{1}{2}) + 2(\frac{3}{4}) + 1 + 1\frac{1}{4} = 5$ cups.
- Choice B is correct.** (5.NBT.7) Subtract each column: $7 - 2 = 5$, $4 - 3 = 1$, $5 - 3 = 2$. Result: 5.12.
- Choice A is correct.** (5.NBT.2) $12 \times 10^3 = 12,000$. The digit 1 (from 12) moves to the thousands place.
- Choice B is correct.** (5.NBT.7) Both decimals have 4 tenths. Compare the hundredths: 6 hundredths is greater than 2 hundredths, so $0.46 > 0.42$.
- Choice C is correct.** (5.MD.1) Total trained: $8.5 + 9.2 + 7.8 = 25.5$ km. Remaining: $30 - 25.5 = 4.5$ km.
- Choices A, B are correct.** (5.NBT.2) $45 \times 100 = 4,500$ and $450 \times 10 = 4,500$. C equals 45,000, and D equals 450.
- Choice C is correct.** (5.G.1) The origin is located at (0, 0), where both coordinates are zero.
- Choice B is correct.** (5.NBT.4) Rounding \$12.456 to the nearest cent (hundredth): the thousandths digit is 6. Since $6 \geq 5$, round the hundredths digit up: 5 becomes 6, giving \$12.46.
- The correct answer is 4.** (5.NBT.1) In the number 346,782, the digits from right to left are: ones (2), tens (8), hundreds (7), thousands (6), ten thousands (4), hundred thousands (3). Therefore, the digit in the ten thousands place is 4.
- Choice B is correct.** (5.MD.2) Count the X marks above $5\frac{1}{2}$. There are 3 X marks, so 3 puppies weigh exactly $5\frac{1}{2}$ pounds.
- Choice D is correct.** (5.MD.1) Convert 4.2 km to meters: $4.2 \times 1000 = 4200$ m. Divide: $4200 \div 1000 = 4.2$, so 4 complete pieces.
- Choice A is correct.** (5.NF.5) $12 \times 1 = 12$ and $12 \times \frac{5}{4} = 15$. Since $\frac{5}{4} > 1$, multiplying by it increases the value: $15 > 12$.
- Choice D is correct.** (5.NF.6) $\frac{1}{2} \times 3\frac{1}{3} = \frac{1}{2} \times \frac{10}{3} = \frac{10}{6} = 1\frac{2}{3}$ yards.
- Choice A is correct.** (5.G.2) The x-coordinate is 4 weeks, and the y-coordinate is 12 centimeters. So after 4 weeks, the plant is 12 cm tall.
- Choice D is correct.** (5.G.4) A scalene triangle has no equal side lengths. The other statements do not correctly describe those triangle types.
- Choice C is correct.** (5.NF.6) $5 \div \frac{1}{8} = 5 \times 8 = 40$ pieces.



Notes From the Math Gardener

Dear Math Gardener,

◇ Look at how much you've grown! 10 practice tests is like 10 seasons of planting and harvesting. Each problem was a seed, each effort was water, and each "aha!" was sunshine. Your math garden is strong now—and it shows. ◇

★ **What gardeners know:** growth is steady, not sudden. You don't see roots growing, but they are. You don't always feel yourself getting smarter, but you are. The proof is in the questions you can solve today that felt impossible 10 tests ago. ★

Garden Inspection Report

- **Roots (foundation):** DEEP! Your basic skills are solid.
- **Stems (structure):** STURDY! Your problem-solving steps hold up.
- **Leaves (skills):** LUSH! You have many strategies to draw on.
- **Flowers (confidence):** BLOOMING! You believe in your skills.

Gardener's wisdom: keep watering your math garden long after the test. Every habit you built (read carefully, plan, check) will grow with you for years. The test is just one harvest. Your garden keeps growing.

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 Gardener (Keep Growing!)

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

- ✓ Realistic. Rigorous.
- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.

THIS BOOK HELPS YOUR CHILD:



Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



Track Progress

Identify strengths and target areas with purposeful practice.



Achieve Success

Better preparation leads to higher scores and bright futures.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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