

8

FULL-LENGTH

South Dakota

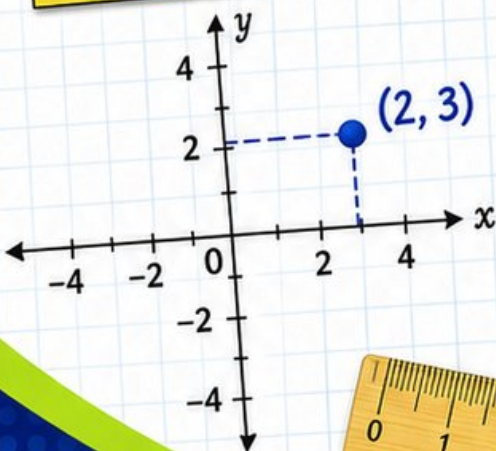
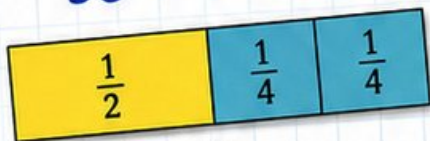
Smarter Balanced

GRADE 5

MATH PRACTICE TESTS

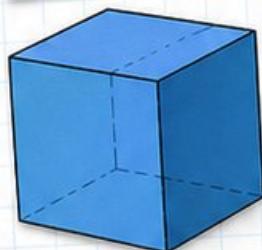
Mixed Practice Questions with Answer Key
for Students, Parents, and Teachers

$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

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

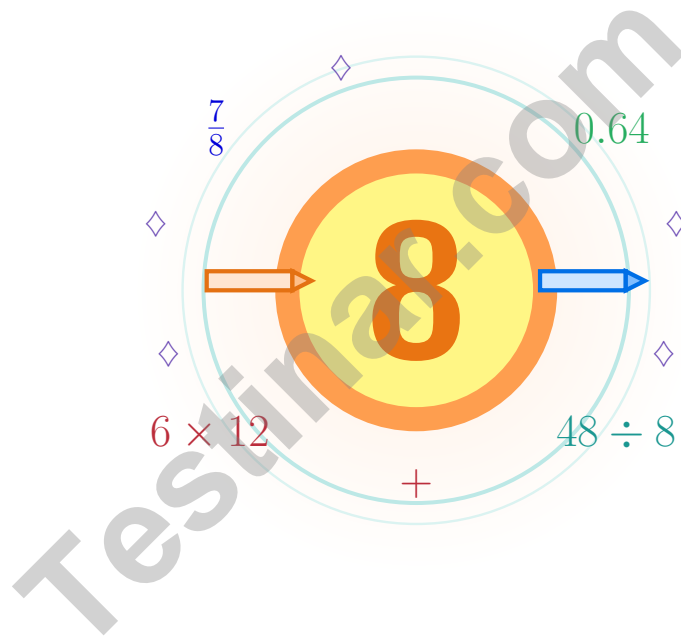


1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



8 South Dakota Smarter Balanced Grade 5 Math Practice Tests

Eight full tests, seven lessons, one stronger mathematician



Eight full tests, a focused quick review, and helpful support that turns Grade 5 practice in The Mount Rushmore State into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari



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Step Into the Practice Path, South Dakota

A eight-step expedition for curious Grade 5 thinkers

For Every Curious Mind in South Dakota

This practice book is your steady companion for eight tests, not a place to be perfect. Math is like Mount Rushmore – big results come from small careful chips, day after day.

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 South Dakota 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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Scan me



Eight Tests, Seven Lessons

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)

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

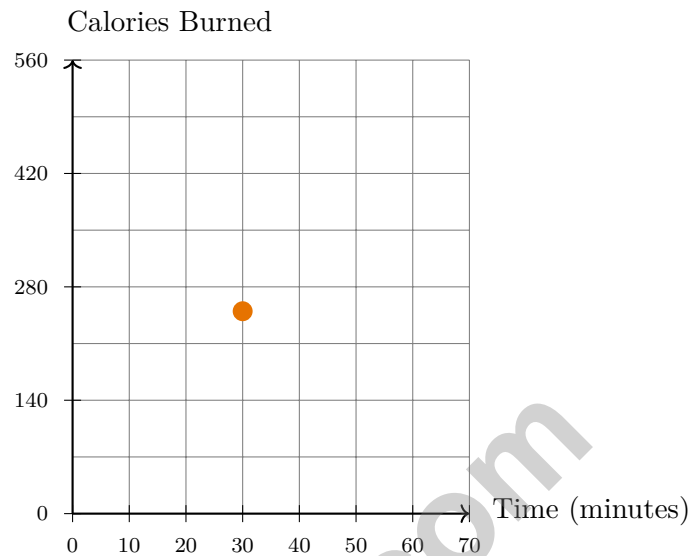
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) A fitness tracker logs exercise data. A point at (30, 250) on a time-calories graph means:



- A. 30 calories burned in 250 minutes
- B. 30 minutes of exercise burned 250 calories
- C. 250 minutes of exercise burned 30 calories
- D. 280 total minutes and calories
- 2) Write the number that is one tenth of 52.6.

Record your answer in the space provided.

- 3) Find: $0.92 + 0.08$.

Record your answer in the space provided.



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

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



1) What is 7×10 ?

A. 17

C. 71

B. 700

D. 70

2) Two rules create ordered pairs. Rule X doubles the input. Rule Y doubles the input and then adds 1. For input 3, which statement is true?

A. Both rules give the same y value

B. Rule X gives (3, 6) and Rule Y gives (3, 7)

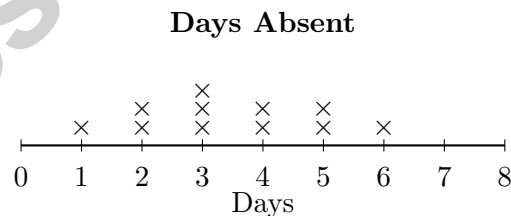
C. Rule X gives (3, 7) and Rule Y gives (3, 6)

D. Rule Y always has a smaller y than Rule X

3) Pattern X: 0, 1, 2, 3, 4. Pattern Y: 0, 3, 6, 9, 12. What is the 4th ordered pair (X, Y) ?

Record your answer in the space provided.

4) The line plot displays the number of days students were absent:



How many students were absent 3 days?

A. 2

C. 4

B. 3

D. 5



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.G.2)** The x-coordinate (30) is time in minutes, and the y-coordinate (250) is calories burned. So 30 minutes of exercise burned 250 calories.
- The correct answer is 5.26.** **(5.NBT.1)** Dividing by 10 moves the decimal point one place left: $52.6 \rightarrow 5.26$.
- The correct answer is 1.00.** **(5.NBT.1)** Line up decimal points and add place by place. $0.92 + 0.08 = 1.00$. This confirms the answer.
- Choice C is correct.** **(5.NBT.7)** The unit fraction is the amount being shared, so divide $\frac{1}{8}$ by 4. The equation is $\frac{1}{8} \div 4 = n$.
- Choice A is correct.** **(5.NF.1)** $\frac{5}{6} = \frac{10}{12}$ and $\frac{1}{4} = \frac{3}{12}$. Then $\frac{10}{12} - \frac{3}{12} = \frac{7}{12}$.
- Choice C is correct.** **(5.MD.1)** Fastest: 49.5 seconds (Marcus). Slowest: 52.8 seconds (Jasmine). Difference: $52.8 - 49.5 = 3.3$ seconds.
- Choice D is correct.** **(5.NBT.2)** $2.4 \times 10 = 24$ (move decimal 1 place right).
- Choice C is correct.** **(5.NBT.2)** Since term 1 is 0, term 5 has $A = 4$ and $B = 16$. Then $16 \div 4 = 4$.
- Choice A is correct.** **(5.MD.3)** Find each part first: Prism A is $6 \times 2 \times 2 = 24$ cubic centimeters, and Prism B is $3 \times 3 \times 1 = 9$ cubic centimeters. Because the parts do not overlap, add them: $24 + 9 = 33$ cubic centimeters.
- Choice D is correct.** **(5.NF.4)** Two rows of $\frac{3}{8}$ each: $2 \times \frac{3}{8} = \frac{6}{8} = \frac{3}{4}$ (simplified).
- Choice B is correct.** **(5.NBT.2)** Dividing by 10 moves the decimal one place left, so 2,478 becomes 247.8.
- Choice B is correct.** **(5.NBT.2)** The known dimensions make a base area of $7 \times 8 = 56$ square meters. Since $336 \div 56 = 6$, the third dimension is 6 meters.
- Choice C is correct.** **(5.MD.2)** Count X marks at 6 and 7. That is $2 + 2 = 4$ baskets with 6 or more apples.
- Choice D is correct.** **(5.NF.7)** $6 \div \frac{1}{2} = 6 \times 2 = 12$. She completes 12 sprints.
- Choice A is correct.** **(5.NF.7)** $V = 7 \times 6 \times 4 = 42 \times 4 = 168 \text{ m}^3$.
- Choice C is correct.** **(5.MD.4)** Volume = $12 \times 8 \times 6 = 96 \times 6 = 576 \text{ in}^3$.
- Choice C is correct.** **(5.NF.1)** Add whole parts: $2 + 1 = 3$. Add fractions: $\frac{2}{3} + \frac{1}{3} = 1$. Total: $3 + 1 = 4$.
- Choice B is correct.** **(5.OA.3)** Each term is twice the term before it: $1 \rightarrow 2 \rightarrow 4 \rightarrow 8 \rightarrow 16$.
- The correct answer is 5.75.** **(5.OA.3)** Write $9.40 - 3.65$. Regroup 1 tenth as 10 hundredths, then subtract by place value: $9.40 - 3.65 = 5.75$.
- Choice C is correct.** **(5.NBT.7)** Shape 3 is a trapezoid with only one pair of parallel sides. Shapes 1, 2, and 4 all have two pairs of parallel sides, making them parallelograms.
- Choices A, C are correct.** **(5.NBT.6)** $576 \div 24 = 24$ and $720 \div 30 = 24$. The other quotients are $960 \div 48 = 20$ and $1,050 \div 50 = 21$.
- Choice D is correct.** **(5.G.2)** Both endpoints have the same x-coordinate (2) but different y-coordinates. This means the line segment is vertical.
- Choice A is correct.** **(5.NF.6)** This is a count of half-pound groups in 1 pound: $1 \div \frac{1}{2} = 2$ groups.
- Choice C is correct.** **(5.OA.3)** The rule is Output = $2 \times$ Input + 1: when Input = 2, Output = 5; when Input = 8, Output = $2(8) + 1 = 17$.
- Choice C is correct.** **(5.G.3)** An octagon has 8 sides and 8 vertices. (A pentagon has 5, a hexagon has 6, a nonagon has 9.)
- Choice C is correct.** **(5.G.3)** Prism A: $4 \times 3 \times 2 = 24$ cubes. Prism B: $4 \times 3 \times 5 = 60$ cubes. Difference: $60 - 24 = 36$ unit cubes.
- Choice A is correct.** **(5.NF.7)** $\frac{1}{5} \div 5 = \frac{1}{5} \times \frac{1}{5} = \frac{1}{25}$.
- Choice B is correct.** **(5.NBT.7)** Point B is at 0.525, which is 0.025 from 0.5. Point A (0.205) is 0.295 away, and C (0.75) is 0.25 away. Point B is closest.
- Choice B is correct.** **(5.NF.1)** LCM(2,3,6) = 6. $\frac{1}{2} = \frac{3}{6}$, $\frac{1}{3} = \frac{2}{6}$, $\frac{1}{6} = \frac{1}{6}$. $\frac{3}{6} + \frac{2}{6} + \frac{1}{6} = \frac{6}{6} = 1$.
- The correct answer is 9.** **(5.NBT.7)** Use place-value reasoning to keep the decimal in the correct place. Multiply both by 10: $72 \div 8 = 9$. This confirms the answer.



Authors' Notes

From Your Math Family

Dear Member of the Math Family,

◇ Welcome to a special note from your math family. You finished 8 full practice tests, and that hard work matters more than any single score. We see you. We're proud of you. ◇

★ **What our math family knows:** math is a journey, not a one-time event. You've taken many steps already. The test is just one stop on a much longer path. Every skill you've built is yours forever. ★

What Your Math Family Sees

- **Effort:** STRONG! You showed up again and again.
- **Growth:** REAL! You can solve problems today you couldn't before.
- **Courage:** BRIGHT! You faced hard problems with brave thinking.
- **Future:** BIG! Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You're not alone. Your math family is with you. Now go show what you've learned.

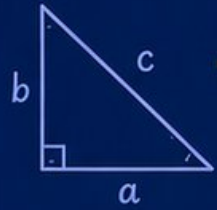
If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie
Your Math Family (Always With You)

$45 \div 5 = ?$

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.



ANSWER KEY INCLUDED

Detailed answer explanations help students understand and learn.



BUILD CONFIDENCE & SKILLS

Strengthens problem-solving abilities and reinforces key math concepts.



IMPROVE & TRACK PROGRESS

Identify strengths and focus on areas that need improvement.



ACHIEVE SUCCESS

Boosts test readiness and helps students achieve their best results.

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis

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Succeed with confidence!