

7

Colorado

CMAS

GRADE 5

MATHEMATICS

PRACTICE TESTS

✓
**PRACTICE
PREPARE
SUCCEED**

★★★

Comprehensive Standards-Aligned
Review for Strong Grade 5
Math Performance



$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$

$$2.4 + 1.6 = 4.0$$

$$A = \frac{bh}{2}$$



**7 FULL-LENGTH
PRACTICE TESTS**

Realistic style
questions



**STANDARDS-
ALIGNED**

Covers all Grade 5
standards



BUILD CONFIDENCE

Target weak areas
and improve
performance



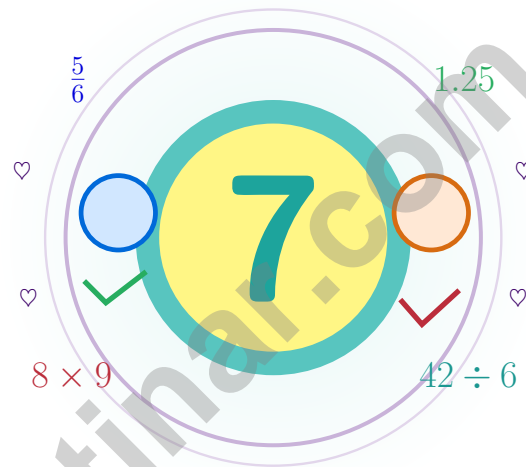
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. **SUCCEED** FOREVER. ★

7 Colorado CMAS Grade 5 Math Practice Tests

A seven-step trail built for steady, brave thinking



Seven full tests, a concise review, and helpful support that turns Grade 5 practice in The Centennial State into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari



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Seven-Step Math Adventure, Colorado

Seven chances to grow your math mind one careful step at a time

Colorado Grade 5: This Trail Is for You

This practice book is your steady companion for seven tests, not a place to be perfect. Math problems are like Rocky Mountain switchbacks – they look steep until you find the trail, then they rise one calm step at a time.

Use these seven 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.

Read

Read with care – math problems hide their gifts.

Try

Try a strategy that fits the size of the numbers.

Reflect

Reflect after each problem to lock the lesson in.

A strong habit for Colorado 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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Seven Steps, One Routine

A simple routine that turns practice into progress

Step 1: Notice

Notice the structure: warm-up, test, review, repair.

Spend a few minutes waking up your memory before the test begins.

Step 2: Practice

Practice one full test in quiet conditions.

Work in a calm spot and focus on careful thinking before speed.

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions and notice which topics keep showing up.

Step 4: Polish

Polish the rough spots before the next test.

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

A Good 7-Week Colorado Rhythm

Week 1	Take Test 1 and notice your starting elevation.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and sharpen fraction and decimal work.
Week 4	Take Test 4 and pay close attention to labels and units.
Week 5	Take Test 5 and compare your habits with your first test.
Week 6	Take Test 6 and practice staying calm during tricky questions.
Week 7	Take Test 7 and reach the summit calmly and confidently.



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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.)

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Metric

1 meter (m) = 100 centimeters (cm)

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TIME

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1) Subtract and simplify: $\frac{3}{5} - \frac{1}{10}$

- A. $\frac{1}{2}$
 B. $\frac{2}{5}$

- C. $\frac{4}{10}$
 D. $\frac{3}{10}$

2) Compare $7 \times 9 \times 6$ and $7 \times (9 \times 6)$. Which statement is true?

- A. $7 \times 9 \times 6$ is greater.
 B. $7 \times (9 \times 6)$ is greater.

- C. The expressions are equal.
 D. Cannot be determined.

3) A store has 72 apples. $\frac{1}{8}$ of them are green and $\frac{1}{3}$ are red. The rest are yellow. How many apples are yellow?

- A. 9 apples
 B. 24 apples

- C. 39 apples
 D. 40 apples

4) Which product is the smallest?

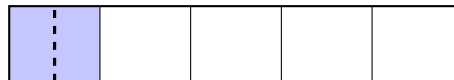
A: $7 \times \frac{1}{3}$	B: $7 \times \frac{2}{3}$
C: 7×1	D: $7 \times \frac{5}{3}$

- A. A
 B. B

- C. C
 D. D

5) The model shows $\frac{1}{5}$ of a whole split into 2 equal parts. What fraction of the whole is each small part?

$\frac{1}{5}$ split into 2



1 whole split into 5 equal parts

- A. $\frac{1}{5}$
 B. $\frac{1}{2}$

- C. $\frac{1}{7}$
 D. $\frac{1}{10}$



- 6) A juice carton holds 8 cups. How many pints is that? (1 pint = 2 cups)

8 cups \longrightarrow ? pints

- A. 2 pints C. 6 pints
 B. 8 pints D. 4 pints
- 7) Which pair of expressions has the same value?
- A. $3 \times (4 + 5)$ and $3 \times 4 + 5$
 B. $2 \times (10 - 3)$ and $2 \times 10 - 3$
 C. $4 \times (6 + 2)$ and $4 \times 6 + 4 \times 2$
 D. $5 + (3 \times 7)$ and $(5 + 3) \times 7$
- 8) A grocery store packs 74.5 pounds of sugar into 10 equal bags. How much sugar is in each bag?
- A. 745 pounds C. 7.45 pounds
 B. 74.5 pounds D. 0.745 pounds
- 9) One sixth meter of string is cut into 3 equal pieces. Which division equation finds each share?
- A. $3 \div \frac{1}{6} = n$ C. $\frac{1}{6} \times 3 = n$
 B. $\frac{1}{6} \div 3 = n$ D. $3 + \frac{1}{6} = n$



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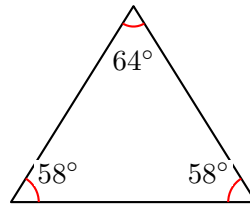
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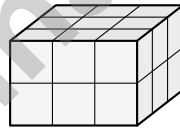


- 1) Look at the diagram with labeled angles. Classify by angles.



not drawn to scale

- A. Right triangle
- B. Equiangular triangle
- C. Obtuse triangle
- D. Acute triangle
- 2) A recipe calls for 750 milliliters of milk. How many liters is that?
- A. 0.75 L
- B. 7.5 L
- C. 75 L
- D. 750 L
- 3) If a $3 \times 3 \times 3$ cube is built, then one layer is removed from the top, how many unit cubes remain?



- A. 9 unit cubes
- B. 18 unit cubes
- C. 27 unit cubes
- D. 19 unit cubes
- 4) On a graph of distance traveled, the x-axis shows hours and the y-axis shows miles. A point is plotted at $(4, 20)$. How many miles does the point show?

Record your answer in the space provided.



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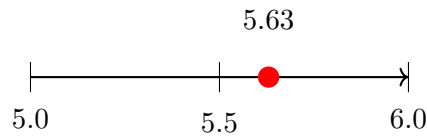
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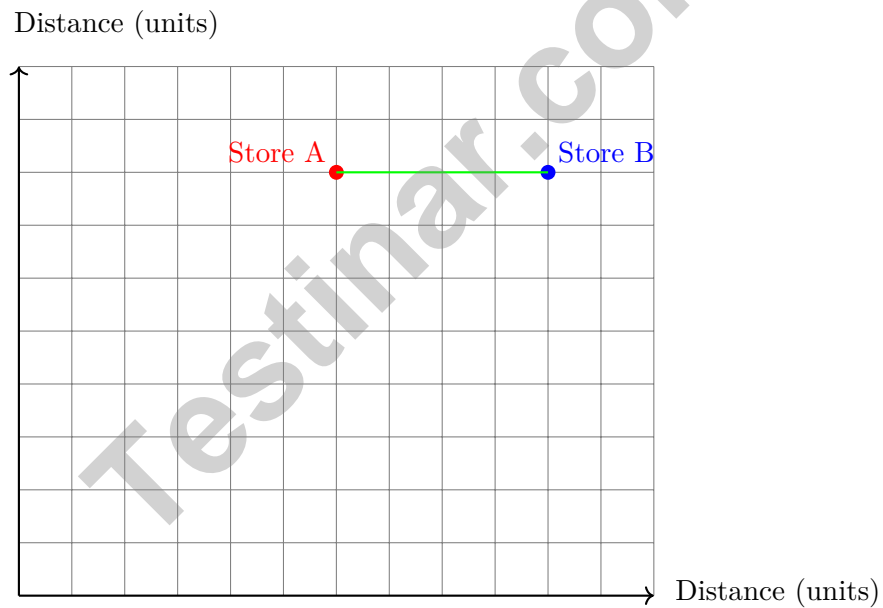
1) Number line from 5.0 to 6.0, midpoint 5.5. Where is 5.63?



What does 5.63 round to (nearest whole)?

- A. 5.0
- B. 5.5
- C. 5.6
- D. 6

2) A town map shows Store A at grid point (6, 8) and Store B at (10, 8). How many units apart are these stores on the map?



- A. 2 units
- B. 4 units
- C. 6 units
- D. 8 units



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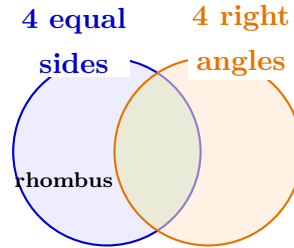
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- 1) A Venn diagram has circles for “4 equal sides” and “4 right angles.” A rhombus that is not a square belongs where?



- A. In “4 right angles” only
- B. In the intersection
- C. In “4 equal sides” only
- D. Outside both circles
- 2) Find: $832 \div 16$.

Record your answer in the space provided.

- 3) A rectangular prism’s base measures 6 inches by 5 inches. If you want a volume of 240 in^3 , what height is needed?
- A. 6 inches
- B. 7 inches
- C. 8 inches
- D. 9 inches
- 4) Which operation changes 2.5 to 250?
- A. $\times 10$
- B. $\times 100$
- C. $\div 10$
- D. $\div 100$



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 A is correct.** (5.NF.A.2) $\frac{3}{5} = \frac{6}{10}$, $\frac{6}{10} - \frac{1}{10} = \frac{5}{10} = \frac{1}{2}$.
- 2) **Choice C is correct.** (5.OA.A.2) Multiplication is associative, so grouping does not change the product. The expressions are equal.
- 3) **Choice C is correct.** (5.NF.B.6) Green: $\frac{1}{8} \times 72 = 9$. Red: $\frac{1}{3} \times 72 = 24$. Total green and red: $9 + 24 = 33$. Yellow: $72 - 33 = 39$ apples.
- 4) **Choice A is correct.** (5.NF.B.5) $\frac{1}{3}$ is the smallest factor, so $7 \times \frac{1}{3}$ is the smallest product.
- 5) **Choice D is correct.** (5.NF.B.6) Start with one unit fraction, $\frac{1}{5}$, and share it into 2 equal parts. Each part is $\frac{1}{5} \div 2 = \frac{1}{10}$ of the whole.
- 6) **Choice D is correct.** (5.MD.A.1) Since 1 pint = 2 cups, divide 8 by 2: $8 \div 2 = 4$ pints.
- 7) **Choice C is correct.** (5.OA.A.2) Choice C works because $4 \times (6 + 2)$ can be split into $4 \times 6 + 4 \times 2$. Both expressions have the same value, 32.
- 8) **Choice C is correct.** (5.NBT.A.2) Dividing by 10: $74.5 \div 10 = 7.45$ pounds per bag.
- 9) **Choice B is correct.** (5.NF.B.6) The unit fraction is the amount being shared, so divide $\frac{1}{6}$ by 3. The equation is $\frac{1}{6} \div 3 = n$.
- 10) **The correct answer is $4\frac{1}{4}$ feet.** (5.MD.B.2) $3 \times \frac{3}{4} + 2 \times \frac{1}{2} + 1 = 2\frac{1}{4} + 1 + 1 = 4\frac{1}{4}$ feet.
- 11) **Choice D is correct.** (5.NF.A.2) $\frac{4}{7} \approx \frac{1}{2}$, $\frac{9}{10}$ is close to 1, $\frac{1}{11} \approx 0$, and $\frac{8}{9} \approx 1$. All fit their benchmarks.
- 12) **Choice A is correct.** (5.NF.B.4) $\frac{3}{5} \times \frac{5}{6} = \frac{15}{30}$, which simplifies to $\frac{1}{2}$.
- 13) **Choice B is correct.** (5.MD.C.4) Base area: $6 \times 5 = 30$ square units. Total volume: $30 \times 8 = 240$ cubic units.
- 14) **The correct answer is 12.65.** (5.NBT.A.4) Thousandths digit is 2, less than 5, so the hundredths digit stays: 12.65.
- 15) **Choice D is correct.** (5.NBT.B.7) Both equal 5 tenths or 50 hundredths. Trailing zeros do not change the decimal's value.
- 16) **Choice C is correct.** (5.NBT.A.2) $34 \times 10 = 340$. Multiply by 10 by appending one zero.
- 17) **Choice B is correct.** (5.MD.C.3) Find each part first: Prism A is $5 \times 4 \times 3 = 60$ cubic inches, and Prism B is $6 \times 4 \times 5 = 120$ cubic inches. Because the parts do not overlap, add them: $60 + 120 = 180$ cubic inches.
- 18) **Choice C is correct.** (5.NF.B.5) $7 \times \frac{3}{2} = \frac{21}{2} = 10\frac{1}{2}$ cm. The bar diagram shows the scaled length is longer, as $\frac{3}{2} > 1$.
- 19) **Choices A, B are correct.** (5.G.B.3) Every triangle has exactly 3 sides and 3 vertices. Some triangles have a right angle, but many triangles do not.
- 20) **The correct answer is $\frac{1}{3}$.** (5.OA.A.2) Dividing the whole amount ($6 + 9$) by 3 splits it into 3 equal parts. One part is $\frac{1}{3}$ of the original value.
- 21) **Choice D is correct.** (5.NBT.B.7) $16.50 - 7.24 = 9.26$ liters of water used.
- 22) **The correct answer is 18.** (5.NF.B.7) Each whole has 3 one-third pieces. Six wholes have $6 \times 3 = 18$ one-third pieces, so the quotient is 18.
- 23) **Choice B is correct.** (5.OA.A.1) Both parentheses become simpler numbers: $9 + 6 = 15$ and $5 - 2 = 3$. So the original expression is equivalent to 15×3 .
- 24) **Choice A is correct.** (5.NF.B.4) $3\frac{1}{4} = \frac{13}{4}$. Then $\frac{13}{4} \times 2 = \frac{26}{4} = 6\frac{2}{4} = 6\frac{1}{2}$.
- 25) **Choice B is correct.** (5.NBT.A.2) 1,000 has three zeros and 100 has two zeros. Together they make 100,000.
- 26) **Choice A is correct.** (5.OA.B.3) The rule says to add the two previous numbers. The two numbers before the blank are 8 and 13, and $8 + 13 = 21$.
- 27) **Choice B is correct.** (5.NF.A.2) Continue the multiples shown: 6, 12, 18, 24, 30, 36; 9, 18, 27, 36; and 4, 8, 12, 16, 20, 24, 28, 32, 36. The first number in all three lists is 36.
- 28) **Choice B is correct.** (5.G.A.2) Point V is positioned 6 units right and 8 units up from the origin, giving the coordinates (6, 8).
- 29) **Choice C is correct.** (5.MD.C.5) The base area is 88 square centimeters. Since $528 \div 88 = 6$, the height is 6 cm.



Stay Calm

Dear Student,

★ It's normal to feel nervous sometimes. The good news is that your preparation helps your brain stay calm. Seven tests gave you practice staying focused even when questions feel challenging. ★

◇ **Calm is a skill:** you can practice it. One slow breath, one careful read, one small step—then the next step. ◇

Calm Plan

- **Breathe:** slow in, slow out.
- **Reread:** underline important words.
- **Start:** write the first step you know.
- **Return:** come back later if needed.

You're prepared. Calm + effort + strategy = success.

Email me at reza@testinar.com.

Reza Nazari & Jay Daie

Your Math Coaches (Stay Calm)

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✓ Summer Learning

✓ On-the-Go Practice

✓
PRACTICE
PREPARE
SUCCEED



STRONG SKILLS. BRIGHT FUTURE.

Give your child the tools they need to succeed in math and in life!



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Quality resources you can trust.



DESIGNED
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SUPPORT
YOUR CHILD

Every step of the way.