

5

FULL-LENGTH

Rhode Island

RICAS

GRADE 5 MATH

★ PRACTICE TESTS ★



**5 FULL-LENGTH
PRACTICE TESTS**



**COMPLETE
STANDARDS
REVIEW**



**SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!**

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



$$12 \times 3 = 36$$



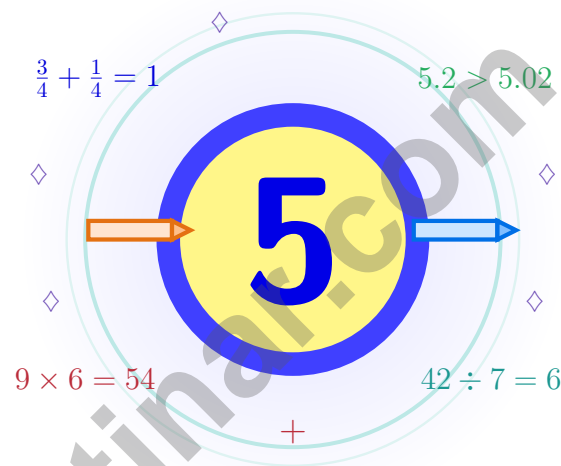
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Rhode Island RICAS Grade 5 Math Practice Tests

A five-checkpoint trail built for steady, brave thinking



Five full tests, a friendly quick review, smart strategy pages, and student-tested support that turn Grade 5 practice in The Ocean State into a steady quest of real growth.

Jay Daie and Reza Nazari



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Rhode Island Mathematicians, the Quest Awaits

A five-checkpoint trail built for steady, brave thinking

An Invitation to Grade 5 in Rhode Island

This book is your practice zone, not a place to be perfect. Each of the five tests gives you a chance to notice clues, choose a strategy, check your thinking, and come back stronger for the next round. Math is a lot like Narragansett Bay – small enough to see end to end, big enough to teach you patience.

Some questions will feel easy right away. Some will make you slow down, draw, estimate, or retry. That is excellent news. It means your math brain is doing real work.

Look

Look at the problem
like a careful detective.

Test

Test your idea one
careful step at a time.

Repair

Repair what was off
and try the next one.

A strong quest habit for Rhode Island: slow down, write neatly, estimate before you solve, and keep going even when a problem looks tricky at first. That is exactly how confident math students are built.

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A Simple Path Through Five Tests

A simple routine that turns five tests into real growth

Step 1: Notice

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

Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Practice

Practice one full test in quiet conditions.

Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Polish

Polish the rough spots before test number two.

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

A Five-Week Rhode Island Quest Map

Week	Mission Focus
Week 1	Take Test 1 like a calm Block Island sunrise.
Week 2	Take Test 2 and notice one habit that grew steadier.
Week 3	Take Test 3 and lift fractions, decimals, and conversions.
Week 4	Take Test 4 and slow down on multi-step problems.
Week 5	Take Test 5 with calm, careful focus.



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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 storage box has volume 360 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) Convert: 36 inches = ? feet.

Record your answer in the space provided.

3) A triangle has one angle of 90 degrees and sides marked as all different. What type is it?

- A. Acute scalene C. Obtuse isosceles
 B. Acute isosceles D. Right scalene

4) Mrs. Johnson earns \$18.50 per hour. If she works 20 hours per week, how much does she earn per week?

- A. \$350 C. \$370
 B. \$360 D. \$380

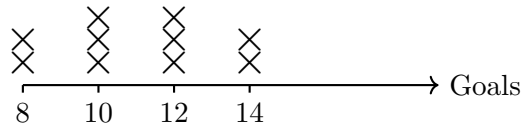
5) A swimming championship features three events. Times are: Event 1: 2 minutes 35 seconds
Event 2: 3 minutes 12 seconds Event 3: 2 minutes 48 seconds

What is the total time for all three events?

- A. 9 minutes 35 seconds C. 9 minutes 5 seconds
 B. 8 minutes 55 seconds D. 8 minutes 35 seconds



6) The line plot shows the number of goals scored by soccer players in a season:



If each player plays the same number of games and each goal in a game is worth 1 point, how many total goals were scored?

- A. 125 goals C. 120 goals
 B. 115 goals D. 110 goals

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1) 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

2) A rectangular prism is built in three stages. Stage 1: 10 cubes. Stage 2: add 10 more. Stage 3: add 10 more. What is the final volume?

A. 10 unit cubes

C. 30 unit cubes

B. 20 unit cubes

D. 15 unit cubes

3) A vertical-alignment diagram for adding:

Vertical Add:

1.8

+0.35

Line up decimals. Then add place by place.

What is $1.8 + 0.35$?

A. 1.80

C. 2.15

B. 2.05

D. 2.25

4) Evaluate: $56 - (7 \times 4) + 18 \div 3$

A. 30

C. 34

B. 32

D. 36



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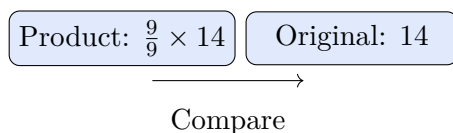
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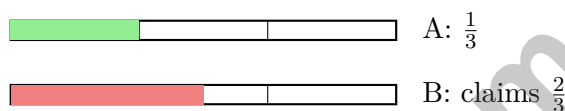


1) Compare $\frac{9}{9} \times 14$ to 14. Which is true?



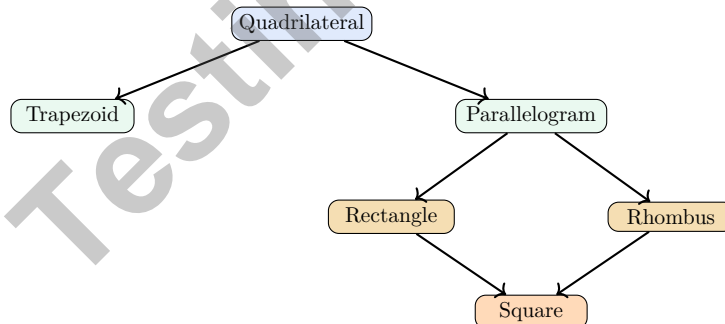
- A. Product < Original
- B. Cannot determine
- C. Product > Original
- D. Product = Original

2) A student drew two fraction bars. Which shows an error?



- A. Student A made an error
- B. Student B made an error (the bar shows $\frac{1}{2}$, not $\frac{2}{3}$)
- C. Both made errors
- D. Neither made an error

Quadrilateral Family Tree



3)

Looking at the family tree, which statement is FALSE?

- A. Every square is a rectangle.
- B. Every rectangle is a square.
- C. Every rhombus is a parallelogram.
- D. Every square is a parallelogram.



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1) How many zeros are in the product 800×900 ?

A. 7

C. 6

B. 5

D. 4

2) Which expression represents adding 7 to 4×9 ?

A. $7 + 4 + 9$

C. $7 \times (4 + 9)$

B. $4 \times 9 + 7$

D. $4 \times (9 + 7)$

3) A prism has base area 24 m^2 and height 5 m. What is the volume?

Record your answer in the space provided.

4) A group of friends buys 4 sandwiches for \$6 each and 4 drinks for \$2 each. They pay with a \$50 bill. Which expression shows how much change they should receive?

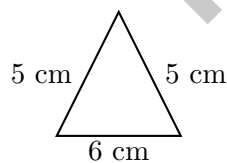
A. $50 - (4 \times 6 + 4 \times 2)$

C. $(50 - 4) \times (6 + 2)$

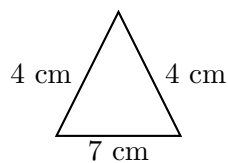
B. $50 - (4 + 6 + 4 + 2)$

D. $4 \times (50 - 6 - 2)$

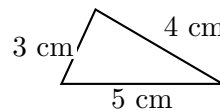
5) Which triangle has three sides of different lengths?



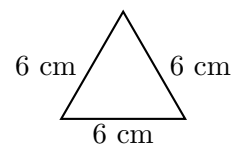
A



B



C



D

A. A

C. C

B. B

D. D



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 C is correct.** **(5.MD.C.5)** The known length and height make groups of $12 \times 5 = 60$ cubic centimeters. Since $360 \div 60 = 6$, the width is 6 cm.
- 2) **The correct answer is 3.** **(5.MD.A.1)** $36 \div 12 = 3$ feet. Since 12 inches make 1 foot, 36 inches makes 3 full feet.
- 3) **Choice D is correct.** **(5.G.B.4)** One 90-degree angle = right; all different sides = scalene. Combined: right scalene.
- 4) **Choice C is correct.** **(5.MD.C.5)** Multiply: $18.50 \times 20 = 370$ dollars per week.
- 5) **Choice D is correct.** **(5.MD.A.1)** Add the seconds: $35 + 12 + 48 = 95$ seconds, which is 1 minute 35 seconds. Add the minutes: $2 + 3 + 2 = 7$ minutes. The total is 8 minutes 35 seconds.
- 6) **Choice D is correct.** **(5.MD.B.2)** Total: $(8 \times 2) + (10 \times 3) + (12 \times 3) + (14 \times 2) = 16 + 30 + 36 + 28 = 110$ goals.
- 7) **Choice B is correct.** **(5.G.A.2)** The second coordinate is 4 times the first. For first coordinate 5, $4 \times 5 = 20$.
- 8) **Choice D is correct.** **(5.NF.B.6)** The size of each group is $\frac{1}{4}$ yard. $6 \div \frac{1}{4} = 6 \times 4 = 24$ beds.
- 9) **Choice B is correct.** **(5.G.B.4)** Rectangles and rhombuses still have two pairs of parallel sides, so they are parallelograms. Each branch adds an extra property to the larger group.
- 10) **Choice B is correct.** **(5.NF.B.4)** $\frac{1}{2} \times \frac{2}{3} = \frac{2}{6} = \frac{1}{3}$ cup.
- 11) **Choice D is correct.** **(5.NF.A.2)** $\frac{3}{4} - \frac{1}{6}$: common denominator is 12. $\frac{3}{4} = \frac{9}{12}$ and $\frac{1}{6} = \frac{2}{12}$. So $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$.
- 12) **Choice C is correct.** **(5.NBT.A.2)** Move the decimal point 1 place right: $2.13 \times 10 = 21.3$.
- 13) **Choice B is correct.** **(5.NBT.A.2)** The diagram moves from 9.1 to 0.091, which is smaller. Moving two places left means dividing by 100.
- 14) **The correct answer is $\frac{3}{8}$.** **(5.MD.B.2)** The line plot should show one X at $\frac{1}{8}$, two X's at $\frac{1}{4}$, three X's at $\frac{3}{8}$, and one X at $\frac{1}{2}$. The value $\frac{3}{8}$ appears 3 times, which is more than any other value.
- 15) **Choice C is correct.** **(5.MD.C.4)** One box: $7 \times 6 \times 4 = 168$ cubic inches. Three boxes: $168 \times 3 = 504$ cubic inches.
- 16) **Choice C is correct.** **(5.NBT.B.7)** In option C, first borrow 1 tenth so 11 hundredths can be used to subtract 8 hundredths. Then the tenths digit has become 1, so $1 - 3$ requires borrowing from the ones place. Other options do not require borrowing from ones.
- 17) **Choice B is correct.** **(5.G.A.2)** Point N is 4 units right and 3 units up from the origin, placing it at (4, 3).
- 18) **Choice D is correct.** **(5.G.B.4)** A square is both a rectangle and a rhombus, so it belongs in the intersection.
- 19) **Choices A, B are correct.** **(5.NF.B.4)** Multiply the numerator by 3: $\frac{2}{7} \times 3 = \frac{6}{7}$. Since $\frac{6}{7}$ is just less than one whole, both A and B are true.
- 20) **Choice B is correct.** **(5.MD.C.4)** The volume formula for a rectangular prism is $V = l \times w \times h$, or equivalently $V = B \times h$ where B is the base area. Choice D does not multiply all three dimensions.
- 21) **Choice D is correct.** **(5.NBT.A.2)** A power of 10 tells how many factors of 10 to use. $10^6 = 1000000$ has 6 zeros. This confirms the answer.
- 22) **The correct answer is 114 m^3 .** **(5.MD.C.3)** 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.
- 23) **Choice D is correct.** **(5.OA.A.2)** Area of a rectangle is length times width. Here the length is $(4 + 3)$ and the width is 5, so the area expression is $(4 + 3) \times 5$.
- 24) **Choice C is correct.** **(5.NF.A.1)** Convert to quarters: $2\frac{2}{4} + 2\frac{3}{4} = 4\frac{5}{4} = 5\frac{1}{4}$.
- 25) **The correct answer is $\frac{13}{24}$.** **(5.NF.A.2)** The least common denominator of 8 and 6 is 24. Rewrite $\frac{3}{8}$ as $\frac{9}{24}$ and $\frac{1}{6}$ as $\frac{4}{24}$. Then $\frac{9}{24} + \frac{4}{24} = \frac{13}{24}$.
- 26) **Choice C is correct.** **(5.NBT.A.2)** Dividing by a power of 10 shifts the value to a smaller place. $2,400 \div 100 = 24$ employees per team. This confirms the answer.
- 27) **Choice C is correct.** **(5.NF.B.6)** The unit fraction is the amount being shared, so divide $\frac{1}{6}$ by 5. The equation is $\frac{1}{6} \div 5 = n$.
- 28) **Choice C is correct.** **(5.MD.C.5)** One box has volume $3 \times 3 \times 3 = 27$ cubic meters. There are 6 boxes, so $27 \times 6 = 162$ cubic meters.



Hey there, Mathematical Inventor!

★ Brilliant innovation session! You've engineered solutions to five complete practice tests, designing creative approaches and building mathematical machines in your mind like a master inventor! Every problem you solved required you to design a solution strategy, test different approaches, and refine your methods. That's exactly what inventors do and you've become exceptionally skilled at it! ★

◇ **Here's what successful inventors understand:** the first prototype rarely works perfectly. Great inventors test, adjust, redesign, and improve until they create something remarkable. You've practiced that exact process through these five tests! Each mistake taught you to refine your approach, and now you have a toolbox full of reliable mathematical inventions ready to use! ◇

Inventor's Workshop: Your Creations

- **Problem-Solving Blueprints:** You've designed reliable methods for every problem type!
- **Strategic Prototypes:** You test multiple approaches to find the most efficient solution!
- **Quality Testing:** You verify your answers to ensure accuracy before submitting!
- **Continuous Improvement:** You learn from feedback and consistently enhance your skills!

Remember this inventor's principle: preparation is the foundation of innovation! Five complete practice tests represent substantial preparation. You've tested your mathematical machines repeatedly, and they work beautifully. Test day is your opportunity to demonstrate your inventions to the world. Trust your engineering!

Want to patent a particularly clever solution method? Share your mathematical inventions at reza@testinar.com. I celebrate innovative thinking!

Reza Nazari & Jay Daie

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