

10 COMPLETE

Maine

Through Year Assessment

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



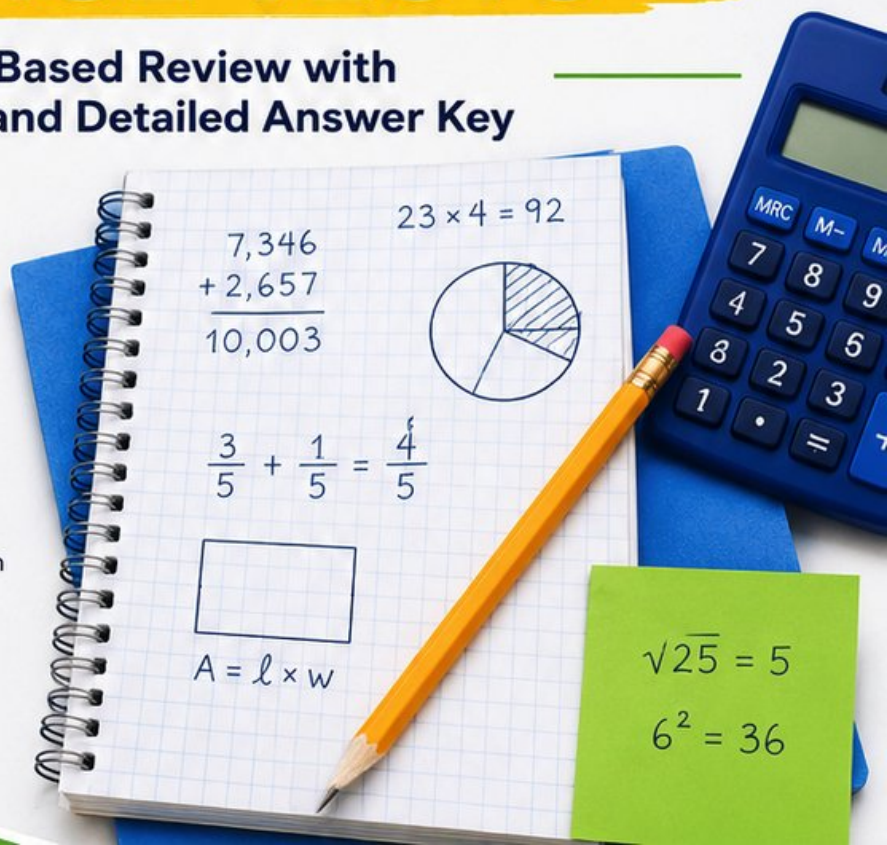
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

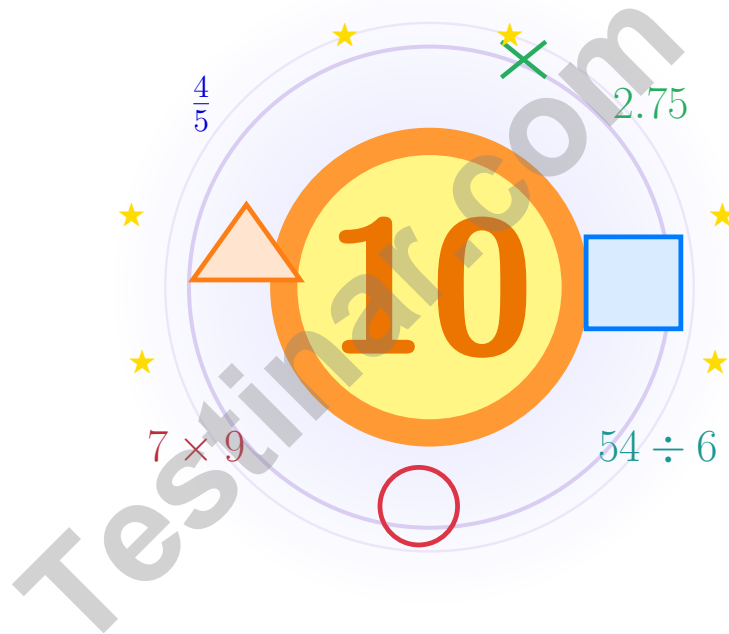
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 Maine TYA 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



- 6) A recipe calls for $\frac{3}{4}$ cup of sugar. This is the same as how many sixteenths?
- A. $\frac{9}{16}$ C. $\frac{8}{16}$
 B. $\frac{12}{16}$ D. $\frac{10}{16}$
- 7) A composite solid has a lower prism that is 9 cm by 4 cm by 3 cm and an upper prism that is 8 cm by 4 cm by 3 cm. The prisms do not overlap. What is the total volume?
- A. 156 cubic centimeters C. 204 cubic centimeters
 B. 168 cubic centimeters D. 252 cubic centimeters
- 8) A rectangular box has base area 60 in^2 and volume 300 in^3 . What is the height?
- A. 4 in C. 6 in
 B. 5 in D. 7 in
- 9) A rectangular prism can hold 72 unit cubes. Two of its dimensions are 8 units and 3 units. What is the third dimension?
- A. 9 units C. 6 units
 B. 4 units D. 3 units
- 10) An electrician needs $\frac{1}{8}$ meter, $\frac{1}{10}$ meter, and $\frac{1}{12}$ meter of wire. Estimate the total.
- A. About $\frac{1}{2}$ meter C. About $\frac{1}{3}$ meter
 B. About 1 meter D. More than $1\frac{1}{2}$ meters
- 11) A piece of wire is 0.85 meter long. If it is cut into 10 equal pieces, how long is each piece?
- A. 8.50 m C. 0.008 m
 B. 0.085 m D. 8.5 m



Grade 5 Mathematics Reference Materials

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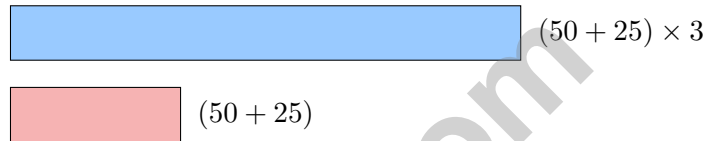
1) Find the missing digit: $3.4? + 2.15 = 5.67$

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

2) A triangle has angles 50° , 60° , and 70° . Classify the triangle by its angles.

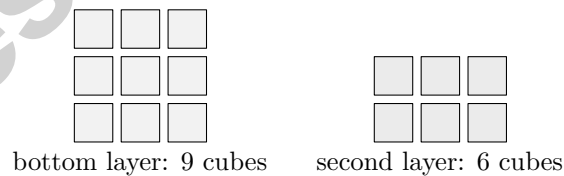
- A. Acute triangle
- B. Right triangle
- C. Obtuse triangle
- D. Scalene triangle

3) The diagram shows the comparison. Which statement is correct?



- A. Bottom is triple the top
- B. Top is half the bottom
- C. They are equal
- D. Top is 3 times the bottom

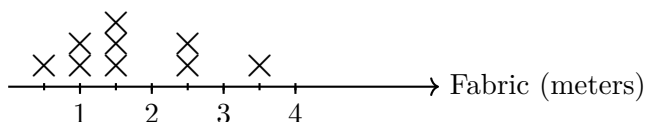
4) A box is partially filled. The bottom layer has 9 unit cubes (3 by 3). The second layer has 6 unit cubes. What is the total?



- A. 15 unit cubes
- B. 9 unit cubes
- C. 18 unit cubes
- D. 27 unit cubes



38) The line plot shows meters of fabric for different projects:



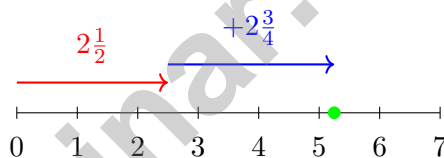
Half-meter intervals shown. How many fabric pieces are $1\frac{1}{2}$ meters long?

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

39) A student says that $85.4 \div 10 = 8.54$. Is the student correct?

- A. Correct
- B. Incorrect; should be 854
- C. Incorrect; should be 0.854
- D. Incorrect; should be 8,540

40)



Number line: $2\frac{1}{2} + 2\frac{3}{4} = ?$

- A. $4\frac{1}{4}$
- B. 5
- C. $5\frac{1}{4}$
- D. $5\frac{3}{4}$

End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



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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 A is correct.** (5.G.A.2) The first coordinate, 2, matches the x-axis label: hours read. The second coordinate, 50, matches the y-axis label: pages read. So the point means pages read is 50 when hours read is 2.
- Choice A is correct.** (5.NBT.A.1) $0.194 \times 10 = 1.94$. Multiplying by 10 shifts the decimal point one place to the right.
- Choice A is correct.** (5.OA.A.2) In 8 minutes, the tub loses 5×8 gallons. Subtract that amount from the starting 60 gallons: $60 - 5 \times 8$.
- The correct answer is 2.75.** (5.NBT.B.7) Line up decimal points and subtract place by place. Write $4.60 - 1.85 = 2.75$. This confirms the answer.
- Choice C is correct.** (5.NF.A.2) Sunflower seeds and millet make $\frac{3}{10} + \frac{2}{10} = \frac{5}{10}$ of the mixture. The other seeds make $1 - \frac{5}{10} = \frac{5}{10} = \frac{1}{2}$ of the mixture.
- Choice B is correct.** (5.NF.A.2) Multiply numerator and denominator by 4: $\frac{3 \times 4}{4 \times 4} = \frac{12}{16}$.
- Choice C is correct.** (5.MD.C.5c) The lower prism has volume 108 cubic centimeters, and the upper prism has volume 96 cubic centimeters. Add them to get 204 cubic centimeters.
- Choice B is correct.** (5.MD.C.5) The base area is 60 square inches. Since $300 \div 60 = 5$, the height is 5 inches.
- Choice D is correct.** (5.MD.C.4) The base has $8 \times 3 = 24$ unit cubes. Since $72 \div 24 = 3$, the prism has 3 layers.
- Choice C is correct.** (5.NF.A.2) $\frac{1}{8} \approx 0.13$, $\frac{1}{10} = 0.10$, and $\frac{1}{12} \approx 0.08$. The sum is about 0.31, which is closest to $\frac{1}{3}$ meter.
- Choice B is correct.** (5.NBT.A.2) Dividing 0.85 meter into 10 equal pieces gives $0.85 \div 10 = 0.085$ meter for each piece.
- The correct answer is 9 units up.** (5.G.A.1) In (3, 9), the second coordinate is the y -coordinate. It tells how far up the point is from the origin.
- Choice A is correct.** (5.NBT.B.6) Use nearby friendly numbers that are easy to divide: $572 \approx 600$ and $28 \approx 30$. Then $600 \div 30 = 20$, so the quotient is about 20.
- Choice C is correct.** (5.OA.A.1) Simplify the parentheses first: $4 + 1 = 5$. Then evaluate inside the brackets: $6 \times 5 = 30$. Finally, $30 \div 2 = 15$.
- Choice C is correct.** (5.G.B.4) Figure C is a rectangle with unequal side lengths. It has four right angles, but it does not have four equal sides, so it is not a square.
- The correct answer is 700.** (5.NBT.A.2) $10^2 = 100$, so $7 \times 10^2 = 7 \times 100 = 700$.
- Choice B is correct.** (5.NBT.A.2) The nonzero parts make $6 \times 7 = 42$, which has no trailing zero. The three factor zeros give 42,000, so there are 3 zeros.
- Choice B is correct.** (5.MD.B.2) Count the X marks above 2 minutes. There are 2 X marks, so 2 students spent 2 minutes on math homework.
- Choices A, B are correct.** (5.NF.B.5b) Both A and B equal $\frac{1}{6}$ because the same two factors can be multiplied in either order. C is $\frac{1}{8}$, and D is $\frac{1}{9}$.
- Choice A is correct.** (5.NF.B.7c) The one-sixth piece is split into 5 equal parts. So the matching equation is $\frac{1}{6} \div 5 = n$.
- Choice D is correct.** (5.G.B.3) A quadrilateral with 2 pairs of parallel sides and 4 right angles is a rectangle. Since not all sides are equal, the best classification is rectangle rather than square.
- Choice B is correct.** (5.NBT.A.3b) $2.53 > 2.35$ because in the tenths place, 5 tenths $>$ 3 tenths. Week 2 had more rainfall.
- Choice D is correct.** (5.NF.B.6) Area = $\frac{3}{4} \times \frac{5}{6} = \frac{15}{24}$, which simplifies to $\frac{5}{8}$ m².
- Choice C is correct.** (5.NF.A.1) $4\frac{5}{5}$ equals 5, so it is not in simplest form. The sum should be written as 5.
- The correct answer is $\frac{1}{8}$.** (5.NF.B.7c) $\frac{1}{2} \div 4 = \frac{1}{8}$ lb. Each portion is a fair share of the half-pound block.
- Choice B is correct.** (5.NBT.B.5) Break 45 into 40 and 5: $(40 \times 7) + (5 \times 7) = 280 + 35 = 315$.
- Choice A is correct.** (5.MD.C.5) Use the rectangular-prism volume formula: $12 \times 7 \times 5 = 420$. So the volume is 420 cubic centimeters.
- Choice A is correct.** (5.NBT.B.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.



Captain of Your Own Math Plane,

◇ 10 practice tests behind you. That's many flights logged in your math airplane. You've handled clear weather, turbulence, tricky landings, and long routes. You're a real pilot now. ◇

★ **Pilots know:** a good pre-flight check makes for a good flight. Before each test problem, do your check: read the question, look at the numbers, pick a strategy. That short check makes the rest of the flight smooth. ★

Flight Crew Skills

- **Pre-flight Check:** CONSISTENT! You read questions carefully.
- **Navigation:** STRONG! You pick a clear strategy.
- **Steady Flight:** STEADY! You stay calm through long tests.
- **Landing:** SHARP! You always check your final answer.

Pilot's tip: on test day, don't fly the whole flight in your head before takeoff. Just take off. Then handle one problem at a time. Trust your training. You've earned your wings.

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 Pilot (Clear Skies Ahead)

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

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Improve Test Readiness

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- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
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