

10 COMPLETE

Arizona

AASA

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



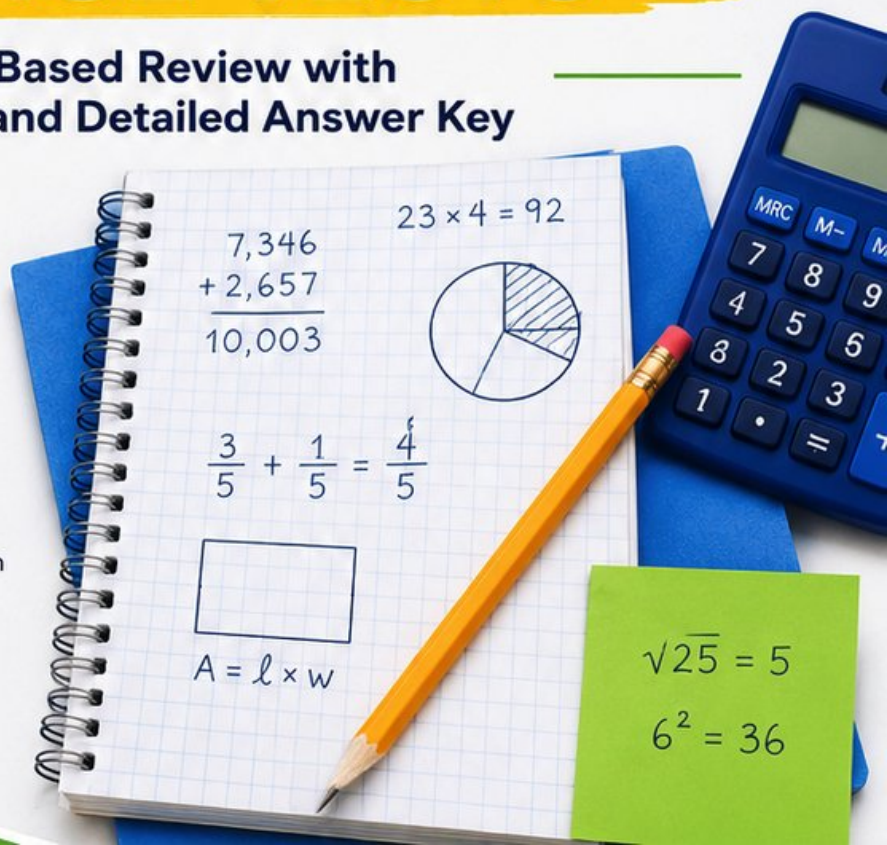
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

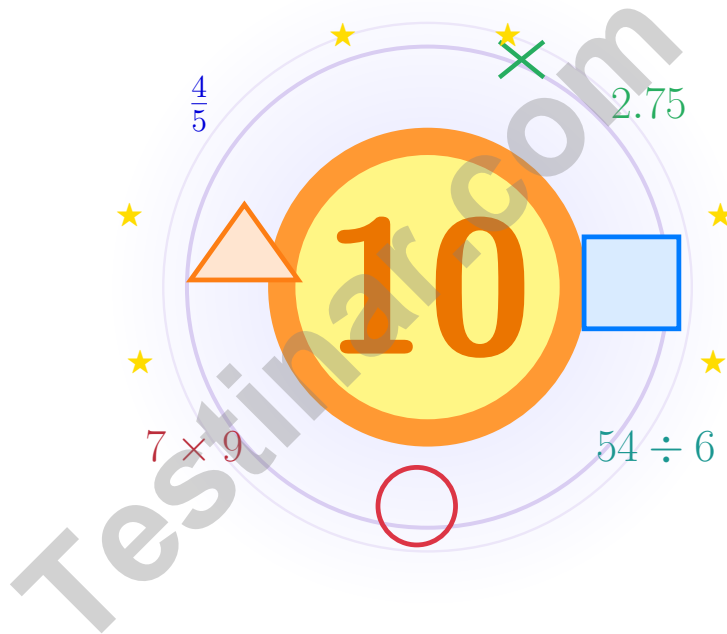
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 Arizona AASA 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



1) Which division equation tells how many $\frac{1}{5}$ parts are in 1 whole?

A. $1 \div \frac{1}{5} = 5$

C. $\frac{1}{5} \div 5 = \frac{1}{25}$

B. $5 \div \frac{1}{5} = 25$

D. $5 + \frac{1}{5} = 5.2$

2) The first input is 1 and the first output is 1. The output doubles each time. Give ordered pairs (input, output) for inputs 1, 2, 3, and 4.

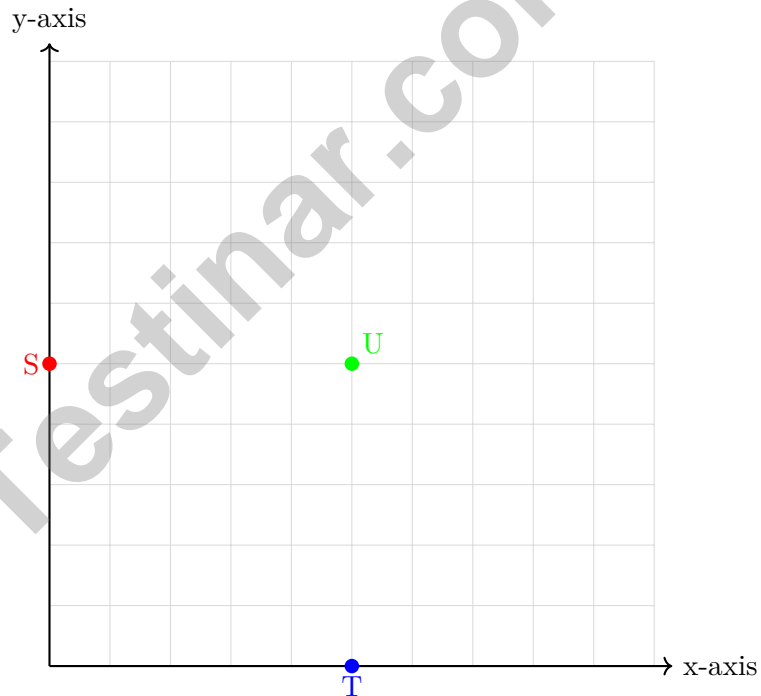
A. (1, 2), (2, 4), (3, 6), (4, 8)

B. (1, 1), (2, 2), (3, 4), (4, 8)

C. (1, 2), (2, 4), (3, 8), (4, 16)

D. (1, 1), (2, 3), (3, 5), (4, 7)

3) Which point is at (5, 5)?



A. S

C. U

B. T

D. None of them



Grade 5 Mathematics Reference Materials

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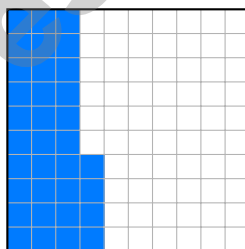
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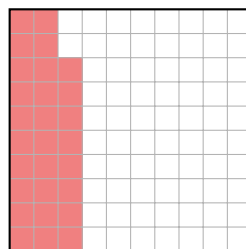
1 day = 24 hours (hr) 1 year = 52 weeks



- 1) A rectangular prism has dimensions 8 feet, 6 feet, and 5 feet. Which measurement below is its volume?
- A. 200 ft^3 C. 260 ft^3
 B. 240 ft^3 D. 280 ft^3
- 2) A carpenter has a board $9\frac{7}{8}$ feet long. She cuts off $4\frac{3}{8}$ feet. How long is the remaining piece?
- A. 6 ft C. $5\frac{5}{8}$ ft
 B. $5\frac{3}{8}$ ft D. $5\frac{1}{2}$ ft
- 3) A triangle has side lengths 6 cm, 6 cm, and 6 cm. Which classification describes the triangle based on its sides?
- A. Equilateral C. Scalene
 B. Isosceles only D. Right
- 4) Compare: $(47 + 13) - 10$ $47 + (13 - 10)$
- A. $>$ C. $=$
 B. $<$ D. Cannot tell
- 5) A hundredths grid shows the sum. Grid 1 has 34 shaded squares; Grid 2 has 28 shaded squares. What is the total shaded?



Grid 1: 0.34



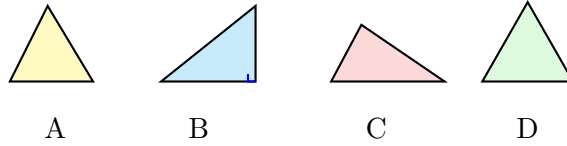
Grid 2: 0.28

What is $0.34 + 0.28$?

- A. 0.52 C. 0.60
 B. 0.62 D. 0.72



38) Look at the triangles. Which one is a right triangle?



A. A

C. C

B. D

D. B

39) For the rule "add 5 to the input," which ordered pair belongs in the pattern?

A. (2, 4)

C. (4, 6)

B. (3, 3)

D. (5, 10)

40) Divide: $2,340 \div 36$

A. 65

C. 69

B. 67

D. 71

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

- 1) **Choice A is correct.** (5.NF.B.7) A whole divided into 5 equal parts of $\frac{1}{5}$ each is represented by $1 \div \frac{1}{5} = 5$.
- 2) **Choice B is correct.** (5.G.A.2) The output starts at 1 for input 1, then doubles each time. That gives outputs 1, 2, 4, 8, paired with inputs 1 through 4.
- 3) **Choice C is correct.** (5.G.A.1) Point U is at (5, 5), with both coordinates positive.
- 4) **Choice A is correct.** (5.NBT.A.4) The tenths digit is 1. Since $1 < 5$, round down. 34.196 rounded to the nearest whole number is 34.
- 5) **Choice A is correct.** (5.MD.C.5) Multiply the side lengths to find the area: $\frac{3}{5} \times \frac{2}{3} = \frac{6}{15} = \frac{2}{5}$ square yard.
- 6) **Choice B is correct.** (5.G.A.2) The x-coordinate is the number of apples (8), and the y-coordinate is the cost in dollars (4). So 8 apples cost \$4.
- 7) **Choice C is correct.** (5.NF.B.7) A sixth-box kit means 6 kits per full box. $15 \div \frac{1}{6} = 15 \times 6 = 90$ kits.
- 8) **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.
- 9) **Choice D is correct.** (5.NF.A.2) LCD of 3 and 5 is 15. $\frac{1}{3} = \frac{5}{15}$ and $\frac{2}{5} = \frac{6}{15}$.
- 10) **The correct answer is $4\frac{1}{2}$.** (5.NF.A.1) $\frac{2}{3} = \frac{4}{6}$. $(8 - 4) + (\frac{4}{6} - \frac{1}{6}) = 4\frac{3}{6} = 4\frac{1}{2}$.
- 11) **Choice B is correct.** (5.MD.C.4) Check each product carefully. A: $4 \times 3 \times 6 = 72$. B: $6 \times 2 \times 7 = 84$. C: $5 \times 3 \times 6 = 90$. D: $4 \times 5 \times 4 = 80$. Only the second prism has volume 84 cm^3 .
- 12) **Choice D is correct.** (5.NF.B.4) The number line counts four equal hops of $\frac{1}{4}$. After four fourths, you land on $\frac{4}{4} = 1$.
- 13) **Choice B is correct.** (5.MD.C.5) The base area is $9 \times 8 = 72$ square meters. Since $360 \div 72 = 5$, the aquarium is 5 m deep.
- 14) **Choice B is correct.** (5.OA.B.3) The dot counts are 1, 5, 9, and then 13. Each new figure adds 4 dots.
- 15) **Choice A is correct.** (5.NBT.A.3) $0.54 > 0.5$, so it is not between 0.4 and 0.5. The others all satisfy $0.4 < x < 0.5$.
- 16) **Choice B is correct.** (5.NBT.A.2) A power of 10 tells how many factors of 10 to use. $72 \times 10^3 = 72000$. This confirms the answer.
- 17) **Choice B is correct.** (5.G.B.3) The matching tick marks show that the left and right sides are congruent, or the same length. The top side is shorter than the bottom side, so those two are not congruent.
- 18) **The correct answer is 0.04.** (5.NBT.A.2) Move the decimal point one place left: $0.4 \rightarrow 0.04$.
- 19) **Choice D is correct.** (5.NF.A.2) $2\frac{4}{9} \approx 2$ and $3\frac{5}{6} \approx 4$. So $2\frac{4}{9} + 3\frac{5}{6} \approx 2 + 4 = 6$.
- 20) **Choice A is correct.** (5.G.B.4) The top and bottom sides are parallel, but the left and right sides are not parallel. So the figure has exactly one pair of parallel sides.
- 21) **The correct answer is 0.42.** (5.NBT.A.2) Divide by 10 by moving the decimal point one place left: $4.2 \rightarrow 0.42$.
- 22) **Choices A, B are correct.** (5.NBT.A.2) $0.4 \times 100 = 40$ and $7.2 \times 10 = 72$. C should be 0.5, and D should be 180.
- 23) **Choice C is correct.** (5.NBT.B.7) $2.5 \times 8 = 20$. Multiply: $25 \times 8 = 200$, then place decimal one place from right: $20.0 = 20$ yards.
- 24) **Choice A is correct.** (5.NF.B.4) $2\frac{1}{4} = \frac{9}{4}$ and $2\frac{2}{3} = \frac{8}{3}$. Multiply: $\frac{9}{4} \times \frac{8}{3} = \frac{72}{12} = 6$.
- 25) **Choice A is correct.** (5.NF.A.1) Convert to fourths: $1\frac{2}{4} + 2\frac{1}{4} + \frac{3}{4} = 3\frac{6}{4} = 4\frac{1}{2}$ lbs.
- 26) **Choice B is correct.** (5.NF.A.1) LCM(7, 4) = 28. $\frac{2}{7} = \frac{8}{28}$ and $\frac{3}{4} = \frac{21}{28}$. $\frac{8}{28} + \frac{21}{28} = \frac{29}{28} = 1\frac{1}{28}$.
- 27) **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.
- 28) **Choice D is correct.** (5.NF.B.6) $\frac{3}{5} \times \frac{5}{6} = \frac{15}{30}$, which simplifies to $\frac{1}{2}$ meter.
- 29) **Choice A is correct.** (5.G.A.2) Rule A: 1, 4, 7, 10. Rule B: 0, 4, 8, 12. Pairs (Rule A, Rule B) are listed in choice A.
- 30) **Choice A is correct.** (5.NBT.B.6) Start with first two digits: $81 \div 34 \approx 2$. Check: $34 \times 2 = 68$, and $81 - 68 = 13$. This is correct.
- 31) **Choice D is correct.** (5.NBT.B.5) Multiply: $132 \times 24 = 132 \times (20 + 4) = 2,640 + 528 = 3,168$.



Dear Math Champion,

◇ Look at what you did. 10 full practice tests. Hundreds of math problems. Every one of them strengthened your mind. You walked into this prep series as a learner, and you are walking out as a math athlete who knows how to compete. ◇

★ **What champions know:** talent is helpful, but training is everything. You trained. You showed up. You did the work. That is why your skills are sharp today. ★

Champion's Skill Card

- **Focus:** MAXED OUT! You can lock onto a problem and stay there.
- **Speed:** CALIBRATED! You move quickly without rushing.
- **Accuracy:** HIGH! You catch your own mistakes.
- **Mindset:** CHAMPION-LEVEL! You believe in your skills.

Final champion tip: on test day, walk in like you have trained for it—because you have. Sit down. Breathe. Read carefully. Work steadily. Check confidently. You will be amazed at how prepared you actually are.

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 Coaches (Champion-in-Training)

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

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- ✓ Results-Driven.

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THIS BOOK HELPS YOUR CHILD:



Build Confidence

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



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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

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COVERS ALL ESSENTIAL TOPICS

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- ✓ 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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