

FULL-LENGTH

8

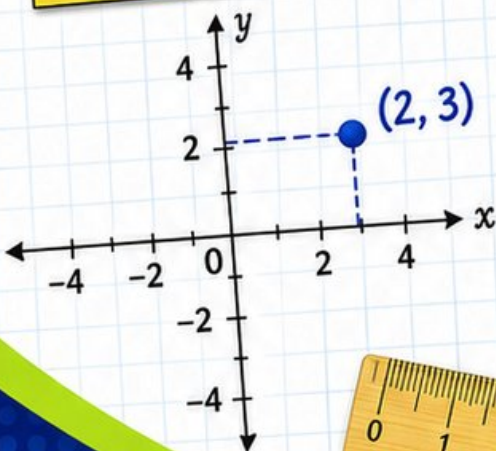
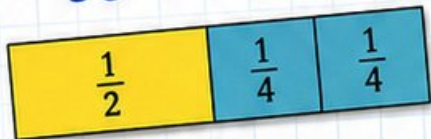
Ohio
OST

GRADE 5

MATH PRACTICE TESTS

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

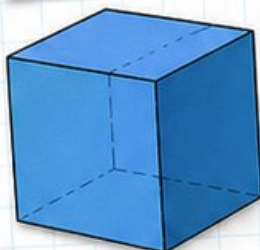
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

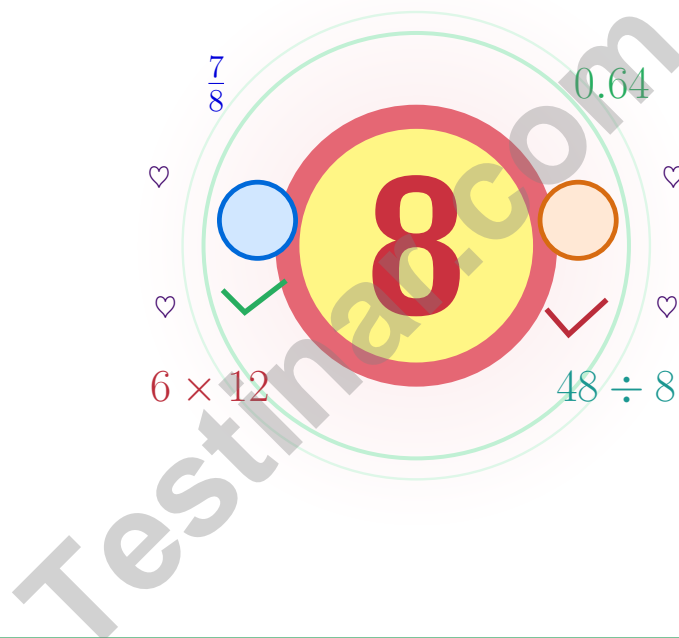
$$7 \times (12 - 5) = 49$$

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 Ohio OST Grade 5 Math Practice Tests

This book is here to help you practice, reflect, and rise across eight tests



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

Jay Daie and Reza Nazari



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Open the Trail, Ohio

Seven practice tests woven into one calm routine

Welcome Letter for Ohio Math Trail Crew

This practice book is your steady companion for eight tests, not a place to be perfect. Math is like an Ohio season – it changes, but the careful student notices what stays the same.

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.

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 Ohio 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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A Map of the Pages

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.



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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)

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TIME

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

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1) A rectangular prism has dimensions 2 ft, 3 ft, and 6 ft. What is its volume?

- A. 18 ft^3
- B. 24 ft^3
- C. 30 ft^3
- D. 36 ft^3

2) A bank account has a balance of \$324.75. Deposits of \$150.25 and \$75.50 are made. What is the new balance?

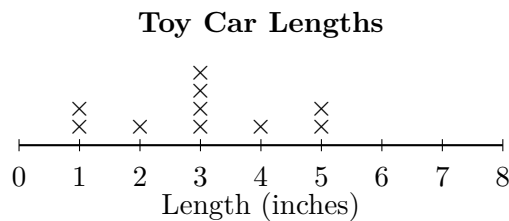
Transaction	Amount
Starting Balance	\$324.75
Deposit 1	\$150.25
Deposit 2	\$75.50
New Balance	?

- A. \$500.00
- B. \$500.50
- C. \$550.50
- D. \$549.50

3) A quadrilateral has 2 pairs of parallel sides. Which statement must be true?

- A. It has no parallel sides.
- B. It is a parallelogram.
- C. All sides are equal.
- D. All angles are right angles.

4) The line plot displays the lengths of toy cars (in inches) collected by a child:



How many cars are less than 3 inches long?

- A. 2
- B. 3
- C. 4
- D. 5



5) Classify a triangle with angle measures 90° , 60° , and 30° by its angles.

A. Acute triangle

C. Obtuse triangle

B. Right triangle

D. Equiangular triangle

6) Find the sum: $\frac{5}{12} + \frac{1}{4}$.

Record your answer in the space provided.

7) Which expression represents “the sum of 7 and 5, multiplied by 3”?

A. $7 + 5 \times 3$

C. $7 \times (5 + 3)$

B. $(7 + 5) \times 3$

D. $7 + (5 \times 3)$

8) In 0.625, how many thousandths are there?

Record your answer in the space provided.



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Customary	Metric
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1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	

WEIGHT AND MASS

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1) Which decimal is less than 0.375?

A. 0.38

C. 0.37

B. 0.4

D. 0.375

2) A step-shaped solid is decomposed into three non-overlapping rectangular prisms. The prisms measure 7 meters by 5 meters by 4 meters, 5 meters by 5 meters by 3 meters, and 4 meters by 4 meters by 4 meters. What is the total volume?

A. 215 cubic meters

C. 279 cubic meters

B. 139 cubic meters

D. 204 cubic meters

3) Find: $\frac{3}{8} \times \frac{4}{9}$.

Record your answer in the space provided.

4) Without calculating, how does $(100 - 25)$ compare to $(100 - 25) + 50$?

A. 50 less

C. Same

B. 50 more

D. Cannot tell

5) What is 43×6 ?

A. 248

C. 268

B. 278

D. 258



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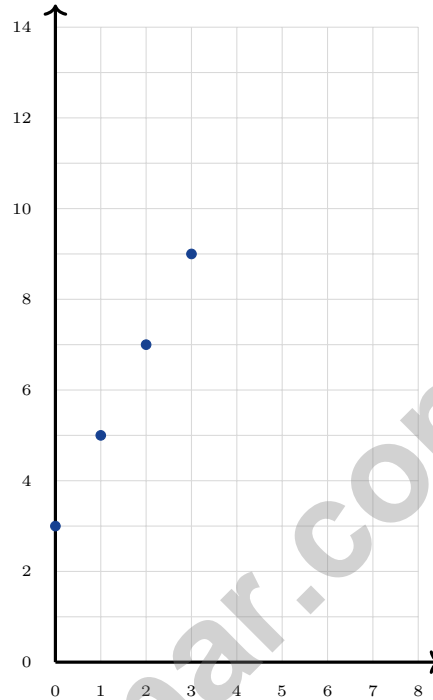
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- 1) A pattern is graphed. Starting point is $(0, 3)$. For each step, x increases by 1 and y increases by 2. What is the next point?



- A. $(5, 11)$ C. $(4, 10)$
 B. $(3, 11)$ D. $(4, 11)$
- 2) A fuel pump displays that a car is traveling at an average of 28.5 miles per gallon. If the car has used 12 gallons, how many miles has it traveled?
- A. 320 miles C. 334 miles
 B. 328 miles D. 342 miles



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 D is correct.** **(5.MD.5a)** Volume = $2 \times 3 \times 6 = 36 \text{ ft}^3$.
- 2) **Choice C is correct.** **(5.MD.5)** Add: $324.75 + 150.25 + 75.50 = 550.50$ dollars.
- 3) **Choice B is correct.** **(5.MD.5c)** By definition, a parallelogram has 2 pairs of parallel sides. This includes rectangles, rhombuses, and general parallelograms.
- 4) **Choice B is correct.** **(5.MD.2)** Count X marks above 1 and 2 inches only. There are 2 marks at 1 inch and 1 mark at 2 inches, totaling 3 cars less than 3 inches.
- 5) **Choice B is correct.** **(5.G.3)** A triangle with one 90° angle is classified as a right triangle.
- 6) **The correct answer is $\frac{2}{3}$.** **(5.NF.1)** $\frac{1}{4} = \frac{3}{12}$. Sum: $\frac{8}{12} = \frac{2}{3}$.
- 7) **Choice B is correct.** **(5.NF.1)** The words “the sum of 7 and 5” mean 7 and 5 must be grouped together as $(7 + 5)$. Then multiply that whole sum by 3.
- 8) **The correct answer is 625.** **(5.NBT.3a)** Read the place value to decide whether the decimal uses tenths, hundredths, or thousandths. 0.625 is 625 thousandths. This confirms the answer.
- 9) **Choice A is correct.** **(5.NBT.3a)** A rhombus is a parallelogram because both pairs of opposite sides are parallel.
- 10) **Choice D is correct.** **(5.NBT.1)** Multiplying 0.07 by 10 shifts the decimal point one place to the right: $0.07 \times 10 = 0.7$.
- 11) **Choice B is correct.** **(5.NBT.1)** Both points W at $(7, 3)$ and Y at $(7, 7)$ have x-coordinate 7. Point X at $(3, 7)$ has x-coordinate 3.
- 12) **Choice C is correct.** **(5.NF.1)** Add: $4\frac{2}{3} + 3\frac{1}{3} = 8$.
- 13) **Choice B is correct.** **(5.NF.1)** Since 1 mile = 5,280 feet, multiply 2 by 5,280: $2 \times 5,280 = 10,560$ feet.
- 14) **Choice A is correct.** **(5.NBT.7)** $11.25 - 5.43 = 5.82$. Align decimals and subtract each place.
- 15) **Choice C is correct.** **(5.NBT.7)** Dividing by 100 moves the decimal two places left: $0.9 \rightarrow 0.09 \rightarrow 0.009$.
- 16) **Choice D is correct.** **(5.NBT.2)** $\frac{4}{4} = 1$, so $15 \times \frac{4}{4} = 15 \times 1 = 15$. Pair A differs by 2, and Pair C differs by 3.
- 17) **Choice A is correct.** **(5.NBT.6)** $1,368 \approx 1,400$ and $34 \approx 35$. So $1,368 \div 34$ rounds to $1,400 \div 35$.
- 18) **Choice C is correct.** **(5.NBT.2)** Dividing the length by 10: $32.5 \div 10 = 3.25$ cm. Each piece is 3.25 cm.
- 19) **Choices A, B are correct.** **(5.NF.2)** $\frac{3}{4} + \frac{1}{2} = 1\frac{1}{4}$, so A is true. Since $1\frac{1}{4}$ is more than 1, B is also true. C multiplies; D ignores the second trip.
- 20) **Choice D is correct.** **(5.NF.2)** LCD = 18. $\frac{5}{9} = \frac{10}{18}$; $\frac{1}{6} = \frac{3}{18}$. $\frac{10}{18} - \frac{3}{18} = \frac{7}{18}$.
- 21) **Choice A is correct.** **(5.NF.7c)** $9 \div \frac{1}{3} = 9 \times 3 = 27$.
- 22) **Choice D is correct.** **(5.NF.7c)** The nonzero parts give $5 \times 8 = 40$, which already ends in one zero. Then the two factor zeros make 4,000, so the product has 3 zeros.
- 23) **The correct answer is 6.** **(5.NBT.2)** Multiply the whole number by the numerator: $\frac{3}{4} \times 8 = \frac{24}{4} = 6$. A helpful check is that 8 groups of three fourths should be more than 5, and 6 makes sense.
- 24) **The correct answer is 216.** **(5.NF.4)** One layer has $6 \times 6 = 36$ unit cubes. With 6 layers, the cube has $36 \times 6 = 216$ unit cubes.
- 25) **Choice D is correct.** **(5.MD.3b)** The two coordinates are equal at each point. The points increase by 2 in both coordinates: $(1,1)$, $(3,3)$, $(5,5)$, $(7,7)$, $(9,9)$.
- 26) **Choice D is correct.** **(5.NF.5b)** $40 \times \frac{1}{5} = 8$ yards. Scaling by $\frac{1}{5}$ gives one-fifth of the original amount.
- 27) **Choice C is correct.** **(5.OA.1)** First find the value inside the parentheses: $4 + 6 = 10$. Then $3 \times 10 = 30$, and $60 - 30 = 30$.
- 28) **Choice D is correct.** **(5.OA.1)** $1 \text{ km} = 1,000 \text{ m}$. Multiply: $125 \times 1000 = 125,000 \text{ m}$.
- 29) **Choice C is correct.** **(5.MD.1)** 0.07 equals 7 hundredths, not 7 tenths. The other choices all equal 0.7.
- 30) **Choice B is correct.** **(5.NBT.3b)** The figures are 1×1 , 2×2 , and 3×3 squares. Figure 5 would be $5 \times 5 = 25$ unit squares.
- 31) **Choice C is correct.** **(5.G.2)** Both points have the same x-coordinate (4), so they are on a vertical line. The distance is $7 - 2 = 5$ units.



Star Player Pep Talk

To My Star Math Player,

◇ 8 practice tests. Every one of them was a chance to grow, and every one of them you took. That's why your math game is at a new level today. ◇

★ **Star players know:** confidence comes from preparation. You can't fake confidence. You build it. You built yours through these 8 tests. So when test day shows up, your confidence will be real, because your work was real. ★

Star Player Stats

- **Practice Hours:** OFF THE CHARTS!
- **Skill Range:** BROAD! You can handle different problem types.
- **Mental Toughness:** HIGH! You don't quit on hard problems.
- **Game-Day Plan:** READY! You know your strategies.

Star tip: the best players don't try to be perfect on every play. They focus on the next play. Do that on the test. One problem at a time. One small win at a time. You add them up to a great score.

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 Coaches (Go Star!)

$45 \div 5 = ?$

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

...and More!



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ALIGNED TO STANDARDS

Great for Students, Parents, and Teachers!

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