

8

FULL-LENGTH

Pennsylvania

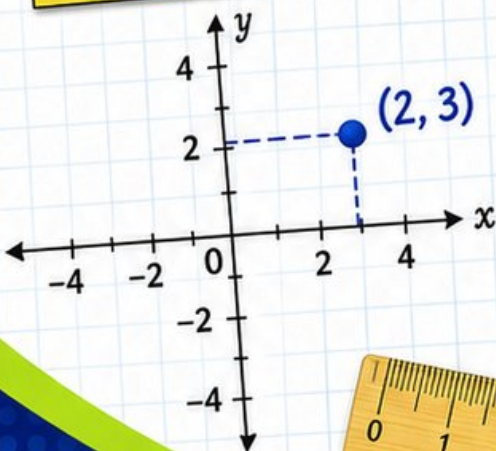
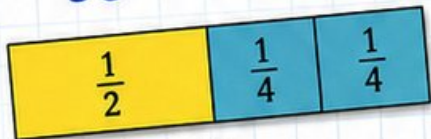
PSSA

GRADE 5

MATH PRACTICE TESTS

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

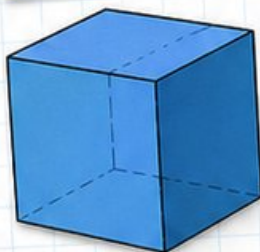
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

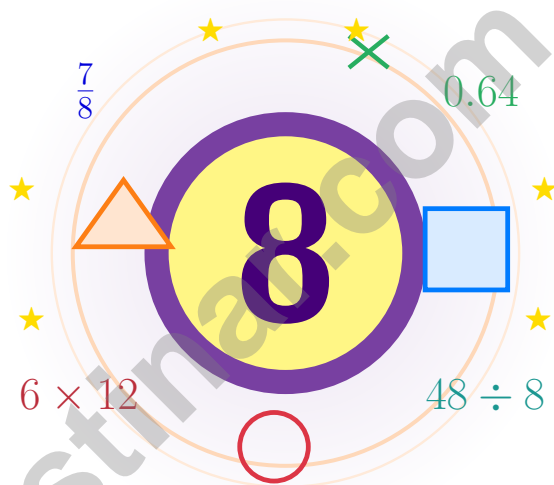
$$7 \times (12 - 5) = 49$$

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 Pennsylvania PSSA Grade 5 Math Practice Tests

Seven chances to read carefully, solve smartly, and grow stronger



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

Jay Daie and Reza Nazari



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Pennsylvania Math Crew, Welcome to the Path

Seven steps, seven growth checks, one calm routine

To the Grade 5 Mathematician

This practice book is your steady companion for eight tests, not a place to be perfect. Math is like a keystone arch – the middle stone holds the whole thing up, and every step around it matters.

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.

See

See the question fully before you start the math.

Plan

Pick a strategy that fits the numbers in front of you.

Build

Build the answer step by step, no shortcuts.

A strong habit for Pennsylvania 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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How to Get the Most Out

A simple routine that turns practice into progress

Step 1: Set Up

Pencil ready, distractions gone.

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

Step 2: Work the Test

Take a full test like the real day.

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

Step 3: Look Back

Walk through your answers without rushing.

Circle missed questions and notice which topics keep showing up.

Step 4: Climb Higher

Pick one or two skills to sharpen next.

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

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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



- 4) A gardener buys soil in bags. Each bag weighs 25 pounds. She buys 12 bags for one project and 8 bags for another. What is the total weight in tons? Use $1 \text{ ton} = 2,000 \text{ pounds}$.
- A. 4 tons C. 2 tons
 B. $\frac{1}{2}$ ton D. $\frac{1}{4}$ ton
- 5) A poster is $\frac{8}{10}$ meter wide. You cut off $\frac{1}{4}$ of the width. What is the remaining width?
- A. $\frac{8}{40}$ meter C. $\frac{5}{10}$ meter
 B. $\frac{2}{10}$ meter D. $\frac{6}{10}$ meter
- 6) Which statement correctly compares 2.5 and 2.50?
- A. $2.5 > 2.50$ C. $2.5 \neq 2.50$
 B. $2.5 < 2.50$ D. $2.5 = 2.50$
- 7) A composite classroom model is made from two non-overlapping rectangular prisms. Prism A is 5 meters long, 4 meters wide, and 5 meters tall. Prism B is 6 meters long, 2 meters wide, and 3 meters tall. What is the total volume?
- A. 100 cubic meters C. 156 cubic meters
 B. 36 cubic meters D. 136 cubic meters
- 8) What is $14.80 - 6.37$?
- A. 7.95 C. 8.52
 B. 9.20 D. 8.43
- 9) A box uses 18 unit cubes arranged in a $3 \times 3 \times 2$ prism. What is the volume?

Record your answer in the space provided.



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1) Rule: the output is 3 times the input. For input 4, what is the ordered pair?

A. (4, 8)

C. (4, 12)

B. (4, 16)

D. (4, 4)

2) A recipe makes 4 cookies and calls for $\frac{3}{4}$ cup of butter. How much butter is needed to make $2\frac{2}{3}$ times the recipe?

A. 3 cups

C. $2\frac{1}{4}$ cups

B. 1 cup

D. 2 cups

3) A comparison shows: Expression X = (11 + 4); Expression Y = (11 + 4) + (11 + 4). Which describes their relationship?

A. Y is 2 more than X

C. X is 2 more than Y

B. Y is less than X

D. Y is 2 times X

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

Record your answer in the space provided.

5) Which statement correctly compares two multiplications?

A. $0.13 \times 100 > 0.13 \times 1000$

C. $0.13 \times 10 > 1.3$

B. $0.013 \times 100 > 1.3$

D. $0.13 \times 100 = 13$



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1) Maria has 8 pizzas. Each person gets one fourth of a pizza. Which division equation matches the situation?

A. $\frac{1}{4} \div 8 = n$

B. $8 \times \frac{1}{4} = n$

C. $8 + \frac{1}{4} = n$

D. $8 \div \frac{1}{4} = n$

2) A composite storage display is made from two non-overlapping rectangular prisms. Prism A is 6 centimeters long, 2 centimeters wide, and 3 centimeters tall. Prism B is 3 centimeters long, 3 centimeters wide, and 5 centimeters tall. What is the total volume?

 A. 81 cubic centimeters B. 36 cubic centimeters C. 45 cubic centimeters D. 93 cubic centimeters

3) Look at the pattern: 5, 8, 11, 14, ... What is the 8th term?

Record your answer in the space provided.

4) Add: $\frac{2}{7} + \frac{3}{4}$

A. $\frac{5}{11}$

B. $\frac{29}{28}$

C. $\frac{5}{28}$

D. $\frac{8}{28}$



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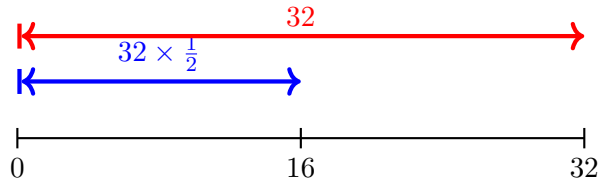
1 day = 24 hours (hr) 1 year = 52 weeks



1) A piece of ribbon is $\frac{5}{6}$ yard long. Mia cuts off $\frac{3}{8}$ yard. How much ribbon is left?

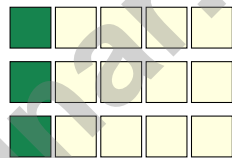
- A. $\frac{1}{24}$ yard C. $\frac{11}{24}$ yard
 B. $\frac{5}{24}$ yard D. $\frac{7}{12}$ yard

2) Use the model. Without calculating, is $32 \times \frac{1}{2}$ less than or greater than 32?



- A. Less than 32 C. Equal to 32
 B. Greater than 32 D. Cannot be determined

3) Fraction strips showing $\frac{1}{5}$ repeated:



3 strips of $\frac{1}{5}$ each

What is $3 \times \frac{1}{5}$?

- A. $\frac{3}{5}$ C. $\frac{4}{5}$
 B. $\frac{1}{15}$ D. 1

4) Three expressions are shown. Which gives the largest value?

- A. 0.5×100 C. 0.05×100
 B. 0.5×10 D. 50×0.1



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 C is correct.** (CC.2.1.5.C.1) Convert to quarters: $2\frac{2}{4} + 2\frac{3}{4} = 4\frac{5}{4} = 5\frac{1}{4}$.
- Choice C is correct.** (CC.2.1.5.B.1) $1\frac{5}{9} \approx 2$ and $2\frac{7}{12} \approx 3$. So total $\approx 2 + 3 = 5$ feet.
- Choice B is correct.** (CC.2.4.5.A.4) 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.
- Choice D is correct.** (CC.2.4.5.A.1) Total bags: $12 + 8 = 20$ bags. Weight: $20 \times 25 = 500$ pounds. Since 500 is one fourth of 2,000, the total weight is $\frac{1}{4}$ ton.
- Choice D is correct.** (CC.2.4.5.A.4) Amount cut off: $\frac{1}{4} \times \frac{8}{10} = \frac{8}{40} = \frac{1}{5}$ meter. Remaining: $\frac{8}{10} - \frac{1}{5} = \frac{8}{10} - \frac{2}{10} = \frac{6}{10}$ meter.
- Choice D is correct.** (CC.2.3.5.A.2) Both represent 2 ones and 5 tenths. Trailing zeros are equivalent.
- Choice D is correct.** (CC.2.3.5.A.2) Find each part first: Prism A is $5 \times 4 \times 5 = 100$ cubic meters, and Prism B is $6 \times 2 \times 3 = 36$ cubic meters. Because the parts do not overlap, add them: $100 + 36 = 136$ cubic meters.
- Choice D is correct.** (CC.2.1.5.B.1) $14.80 - 6.37 = 8.43$. Borrow from ones place: $14.80 - 6.37 = 8.43$.
- The correct answer is 18 cubic units.** (CC.2.1.5.B.1) The prism has $3 \times 3 = 9$ cubes in each layer and 2 layers. That gives $9 \times 2 = 18$ cubic units.
- Choice A is correct.** (CC.2.4.5.A.5) The known length and height make groups of $12 \times 7 = 84$ cubic inches. Since $336 \div 84 = 4$, the width is 4 in.
- Choice D is correct.** (CC.2.4.5.A.5) Volume = $11 \times 11 \times 11 = 1331$ cubic centimeters.
- Choice A is correct.** (CC.2.3.5.A.1) LCD = 12. $\frac{5}{6} = \frac{10}{12}$; $\frac{1}{4} = \frac{3}{12}$; $\frac{10}{12} - \frac{3}{12} = \frac{7}{12}$.
- Choice C is correct.** (CC.2.3.5.A.1) $V = 5 \times 4 \times 6 = 120$ cm³.
- Choice A is correct.** (CC.2.3.5.A.1) Pattern Y is always 3 times Pattern X: $4 \times 3 = 12$, $7 \times 3 = 21$, $10 \times 3 = 30$, $13 \times 3 = 39$.
- Choice D is correct.** (CC.2.3.5.A.1) Use the rectangular-prism volume formula: $5 \times 5 \times 3 = 75$. So the volume is 75 cubic meters.
- Choice B is correct.** (1.5.B) The known product $8 \times 5 = 40$ already has one zero. The factor 800 adds two more zeros, giving 4,000.
- Choice A is correct.** (1.5.B) Borrow 1 from 6: $5\frac{7}{5} - 3\frac{4}{5} = 2\frac{3}{5}$.
- Choice D is correct.** (CC.2.4.5.A.4) $\frac{3}{8} + \frac{1}{4} + \frac{1}{8} = \frac{3}{8} + \frac{2}{8} + \frac{1}{8} = \frac{6}{8} = \frac{3}{4}$ cup.
- The correct answer is 0.245.** (1.5.B) Move the decimal point two places left: $24.5 \rightarrow 0.245$.
- Choice B is correct.** (1.5.B) 1 km = 1,000 m. Multiply: $3.25 \times 1000 = 3250$ m.
- Choice D is correct.** (CC.2.4.5.A.1) Both points have the same x-coordinate (2), so the distance is calculated using the y-coordinates: $8 - 4 = 4$ blocks.
- Choices A, B are correct.** (CC.2.2.5.A.4) The 5th term is 16, and every pair of consecutive terms differs by 3. C should be 31, and D misnames the rule because this is an additive pattern.
- Choice A is correct.** (1.5.B) Dividing by 1,000 moves the decimal point three places to the left. $8,700 \div 1,000 = 8.7$.
- Choice A is correct.** (1.5.B) Each mile has 6 sixth-mile sections. So $3 \div \frac{1}{6} = 3 \times 6 = 18$ sections.
- The correct answer is 0.42.** (1.5.B) Divide by 10 by moving the decimal point one place left: $4.2 \rightarrow 0.42$.
- Choice C is correct.** (1.5.B) The student found $4 \times \frac{1}{2} = 2$. But $4 \div \frac{1}{2}$ asks how many halves are in 4 wholes. There are 2 halves in each whole, so 4 wholes contain $4 \times 2 = 8$ halves.
- Choice B is correct.** (CC.2.3.5.A.2) By definition, a parallelogram has 2 pairs of parallel sides. This includes rectangles, rhombuses, and general parallelograms.
- Choice A is correct.** (CC.2.4.5.A.5) Total volume: $4 \times 3 \times 2 = 24$ cubes. Already placed: 15. Needed: $24 - 15 = 9$ unit cubes.
- Choice C is correct.** (CC.2.4.5.A.4) Count the X marks at $1\frac{1}{2}$ meters. There are 3 X marks, so 3 fabric pieces are $1\frac{1}{2}$ meters long.



Personal Trainer Wrap-Up

Math Athlete, Listen Up!

◇ 8 practice tests done. That's serious training. Your math muscles are strong, your endurance is high, and your reflexes (recognizing problem types) are quick. You're in great shape for the big test. ◇

★ **Trainer's wisdom:** muscle memory is real, even in math. The more you do something, the more your brain knows how to do it without thinking. You've built that muscle memory over 8 tests. Now it's automatic. ★

Athlete's Performance Card

- **Endurance:** TOP-TIER! You can finish a long test without burnout.
- **Strength:** STRONG! You handle multi-step problems with power.
- **Speed:** SHARP! You move efficiently from question to question.
- **Recovery:** GREAT! You bounce back fast from tough questions.

Trainer's tip: on test day, hydrate, breathe deeply, and warm up with the easier questions first. Build your rhythm. Your training will carry you the rest of the way.

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 Trainer (You're In Great Shape)

$45 \div 5 = ?$

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.

$7x - 4 = 17$

$1\frac{1}{2} + 2\frac{1}{3} = ?$

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REALISTIC PRACTICE

Tests mirror Grade 5 math standards and real assessment formats.



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Detailed answer explanations help students understand and learn.



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Strengthens problem-solving abilities and reinforces key math concepts.



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