

# 8

FULL-LENGTH

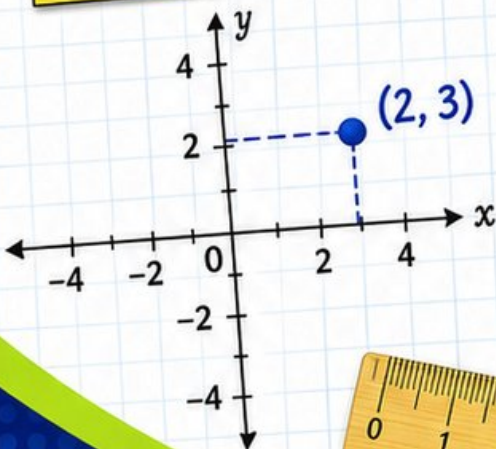
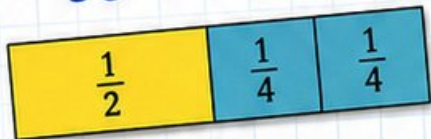
# Arizona AASA

## GRADE 5

# MATH PRACTICE TESTS

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

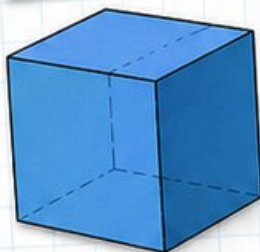
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

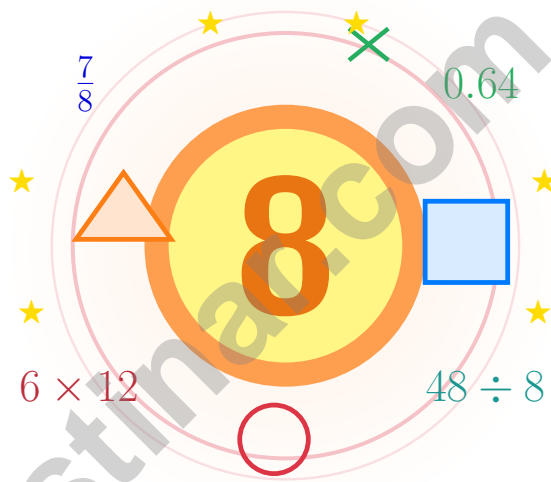
$$7 \times (12 - 5) = 49$$

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 Arizona AASA Grade 5 Math Practice Tests

*Eight full tests woven into one calm, steady practice path*



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

**Jay Daie and Reza Nazari**



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# Arizona Grade 5: Practice Path Briefing

A eight-step adventure for Arizona Grade 5 thinkers

## Just for Arizona Grade 5 Trail Specialists

This practice book is your steady companion for eight tests, not a place to be perfect. Like the Grand Canyon, math problems often look enormous at first glance. Up close, they reveal layer after layer of clear, solvable steps.

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 Arizona 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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# Your Step-by-Step Plan

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)

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#### Metric

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### 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

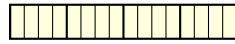
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1 day = 24 hours (hr)    1 year = 52 weeks



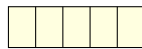
- 1) A ribbon is 6 feet long. How many  $\frac{1}{4}$ -foot pieces can be cut from it?

Each foot is split into fourths



6 feet total

- A. 18 pieces
- B. 24 pieces
- C. 12 pieces
- D. 6 pieces
- 2) Compare:  $12.5 \div 100$  and  $125 \div 1000$ . Which is true?
- A.  $12.5 \div 100 > 125 \div 1000$
- B.  $12.5 \div 100 < 125 \div 1000$
- C.  $12.5 \div 100 = 125 \div 1000$
- D. Cannot compare
- 3) Cara saves \$4 a week for 6 weeks, then spends \$9. Which expression shows her savings now?
- A.  $4 + 6 - 9$
- B.  $(4 + 6) \times 9$
- C.  $4 \times (6 - 9)$
- D.  $4 \times 6 - 9$
- 4) What is  $\frac{1}{2} \div 5$ ?



$\frac{1}{2}$  split into 5

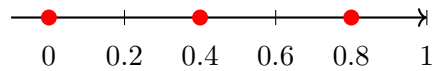
- A.  $\frac{1}{10}$
- B.  $\frac{5}{2}$
- C.  $\frac{2}{5}$
- D.  $\frac{1}{7}$



5) A science experiment measures 7.635 grams. Round to nearest hundredth.

- A. 7.6 g                                       C. 7.64 g  
 B. 7.63 g                                       D. 7.7 g

6) On a number line, plot the decimals 0.4 and 0.8. Which is farther from 0?



- A. 0.4     C. They are equal distance  
 B. Cannot tell                                       D. 0.8

7) What is  $7.45 - 2.33$ ?

- A. 5.22     C. 4.98  
 B. 5.12     D. 5.88

8) A composite art display is made from two non-overlapping rectangular prisms. Prism A is 7 meters long, 4 meters wide, and 4 meters tall. Prism B is 6 meters long, 2 meters wide, and 4 meters tall. What is the total volume?

- A. 112 cubic meters                               C. 188 cubic meters  
 B. 48 cubic meters                                 D. 160 cubic meters

9) Two students add  $5.48 + 3.26$ .

Maya's work: Aligns decimals, gets 8.74. Chen's work: Aligns decimals, gets 8.64.

Who is correct?

- A. Maya     C. Neither; the sum is 8.84.  
 B. Chen     D. Neither; the sum is 9.74.



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1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

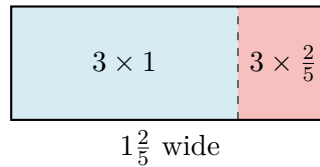
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1 hour (hr) = 60 minutes (min)    1 year = 12 months

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



- 1) Which multiplication matches the area model showing  $3 \times 1\frac{2}{5}$ ?



- A.  $3 + 1\frac{2}{5}$                        C.  $\frac{3}{5} \times 1$   
 B.  $3 + \frac{2}{5}$                          D.  $3 \times 1 + 3 \times \frac{2}{5}$
- 2) A display case measures 12 feet long, 7 feet wide, and 3 feet tall. What is its volume?
- A. 84 cubic feet                       C. 252 cubic feet  
 B. 36 cubic feet                         D. 21 cubic feet
- 3) A store sells 2500 bananas. This equals  $25 \times 10^n$ . Find  $n$ .
- A. 1                                         C. 4  
 B. 3                                         D. 2
- 4) Which number is a common denominator for  $\frac{2}{5}$  and  $\frac{3}{4}$ ?
- A. 20                                       C. 15  
 B. 9                                         D. 10
- 5) A polygon has 5 vertices. How many sides does it have?
- A. 3                                         C. 5  
 B. 4                                         D. 6
- 6) Three expressions are shown. Which gives the largest value?
- A.  $0.5 \times 100$                        C.  $0.05 \times 100$   
 B.  $0.5 \times 10$                          D.  $50 \times 0.1$



## 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

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### TIME

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1 hour (hr) = 60 minutes (min)    1 year = 12 months

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



1) Which of these represents the same value as  $\frac{3}{10}$ ?

A. 0.03

C. 3.0

B. 0.13

D. 0.3

2) Evaluate the expression:  $100 - (8 \times 6) - 2 \times 5$

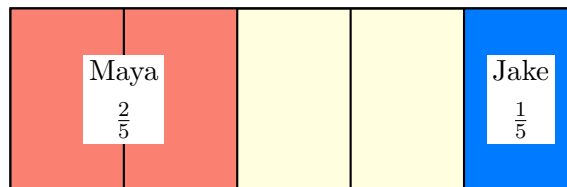
*Record your answer in the space provided.*

3) A prism has volume  $60 \text{ cm}^3$  and base area  $12 \text{ cm}^2$ . Find the height.

*Record your answer in the space provided.*

4) Two friends share a chocolate bar. Maya eats  $\frac{2}{5}$  and Jake eats  $\frac{1}{5}$ . How much do they eat together?

Chocolate Bar



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

C.  $\frac{3}{5}$

B.  $\frac{2}{5}$

D.  $\frac{4}{5}$



## Grade 5 Mathematics Reference Materials

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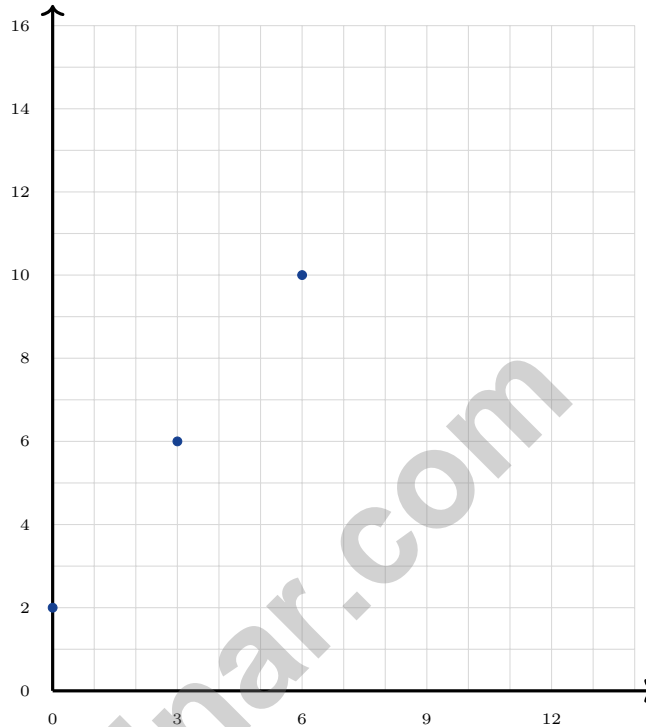
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1 hour (hr) = 60 minutes (min)    1 year = 12 months

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



- 1) A pattern uses:  $x$ -rule (start at 0, add 3);  $y$ -rule (start at 2, add 4). Which ordered pair comes first?



- A. (2, 0)                       C. (3, 6)
- B. (0, 2)                       D. (3, 4)
- 2) A fabric store has 40 yards of material. A customer buys  $\frac{1}{5}$  of it. How many yards does the customer buy?
- A. 10 yards                       C. 40 yards
- B. 20 yards                       D. 8 yards



## 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 B is correct.** **(5.NF.B.7)** Divide a whole number by a unit fraction:  $6 \div \frac{1}{4} = 6 \times 4 = 24$  pieces.
- 2) **Choice C is correct.** **(5.NBT.A.2)**  $12.5 \div 100 = 0.125$  and  $125 \div 1000 = 0.125$ . Both quotients are equal.
- 3) **Choice D is correct.** **(5.OA.A.2)** Cara saves \$4 each week for 6 weeks, so her savings start as  $4 \times 6$ . Then she spends \$9, so subtract 9.
- 4) **Choice A is correct.** **(5.NF.B.4)**  $\frac{1}{2} \div 5 = \frac{1}{2} \times \frac{1}{5} = \frac{1}{10}$ .
- 5) **Choice C is correct.** **(5.NBT.A.4)** The hundredths digit is 3. The thousandths digit is 5. Since  $5 \geq 3$ , round hundredths up:  $3 \rightarrow 4$ , giving 7.64 g.
- 6) **Choice D is correct.** **(5.NBT.A.4)** 0.8 is farther right on the number line than 0.4, so 0.8 is farther from 0.
- 7) **Choice B is correct.** **(5.NBT.B.7)** Subtract each column:  $7 - 2 = 5$ ,  $4 - 3 = 1$ ,  $5 - 3 = 2$ . Result: 5.12.
- 8) **Choice D is correct.** **(5.NBT.B.7)** Find each part first: Prism A is  $7 \times 4 \times 4 = 112$  cubic meters, and Prism B is  $6 \times 2 \times 4 = 48$  cubic meters. Because the parts do not overlap, add them:  $112 + 48 = 160$  cubic meters.
- 9) **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.
- 10) **Choice B is correct.** **(5.NBT.A.1)** The digit in the hundredths place is 8. The number is 5.382.
- 11) **Choice A is correct.** **(5.NF.B.7)**  $6 \div \frac{1}{2} = 6 \times 2 = 12$ .
- 12) **Choice C is correct.** **(5.NF.B.7)** Start with one unit fraction,  $\frac{1}{4}$ , and share it into 5 equal parts. Each part is  $\frac{1}{4} \div 5 = \frac{1}{20}$  of the whole.
- 13) **The correct answer is 12.** **(5.MD.A.1)** Convert meters to centimeters before dividing. Since 3 m is 300 cm and each piece is 25 cm,  $300 \div 25 = 12$  pieces.
- 14) **Choice C is correct.** **(5.MD.A.1)** Start with 2 and multiply by 5 each time. The terms are 2, 10, 50, 250, so the 4th term is 250.
- 15) **Choice D is correct.** **(5.NBT.B.7)** The number line shows 1.2 divided into four jumps of 0.3 each. Therefore,  $1.2 \div 0.3 = 4$ .
- 16) **Choice C is correct.** **(5.NBT.B.6)** C is incorrect because  $22 \times 38 + 10 = 846$ , not 847. The correct remainder is 11. A, B, and D are correct.
- 17) **Choice C is correct.** **(5.NBT.A.2)** The diagram shows the decimal moving two places right, which is what multiplying by 100 does. So 7.52 becomes 752.
- 18) **Choice A is correct.** **(5.NF.B.4)**  $\frac{5}{7} \times \frac{3}{4} = \frac{15}{28}$ . The numerator and denominator share no common factor larger than 1, so the product is already in simplest form.
- 19) **Choice D is correct.** **(5.G.A.2)** Pairs are (2,1), (4,3), (6,5), (8,7). The third pair is (6, 5).
- 20) **Choice B is correct.** **(5.NF.A.1)**  $6\frac{2}{3} - 2\frac{1}{3} = 4\frac{1}{3}$  cups.
- 21) **Choice C is correct.** **(5.MD.B.2)** Add the flower heights shown by the line plot:  $(6 \times 3) + (8 \times 2) + (10 \times 2) + (12 \times 3) = 18 + 16 + 20 + 36 = 90$  inches.
- 22) **Choices A, B are correct.** **(5.MD.C.4)** Both A and B work: you can multiply length, width, and height, or multiply the base area by the height. C and D do not multiply all three dimensions correctly.
- 23) **Choice D is correct.** **(5.NBT.A.2)**  $700 \times 600$  has the most factor zeros. Since  $7 \times 6 = 42$ , those four factor zeros make 420,000, which has more zeros than the other choices.
- 24) **Choice C is correct.** **(5.MD.C.5)** Double the flour:  $2.5 \times 2 = 5.0$  cups of flour.
- 25) **The correct answer is 2.5.** **(5.MD.A.1)**  $2,500 \div 1,000 = 2.5$  kg. Since 1,000 grams make 1 kilogram, divide by 1,000.
- 26) **Choice B is correct.** **(5.MD.A.1)** Add:  $4\frac{1}{10} + 2\frac{9}{10} = 6\frac{10}{10} = 7$ .
- 27) **Choice C is correct.** **(5.NF.A.1)** For this rule, each  $y$ -value should be 5 times the  $x$ -value. When  $x = 6$ , the output should be  $5 \times 6 = 30$ , not 25.
- 28) **Choice C is correct.** **(5.OA.B.3)** For 25 likes, the matching number of views should be  $25 \times 5 = 125$ , not 150. The other listed pairs follow the rule.
- 29) **Choice A is correct.** **(5.NF.A.2)** LCD = 12.  $\frac{5}{6} = \frac{10}{12}$ ;  $\frac{3}{4} = \frac{9}{12}$ .  $\frac{10}{12} - \frac{9}{12} = \frac{1}{12}$ .



**Champion's Training Log**

---

**Dear Math Champion,**

◇ Look at what you did. 8 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.
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- **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](mailto:jay@testinar.com). I'd love to hear from you!

**Jay Daie**

Your Math Coaches (Champion-in-Training)

$45 \div 5 = ?$

# 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



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