

5 Full-Length California CAASPP Grade 7 Math Practice Tests

Extra Practice for Test Day Success

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5 Practice Tests



 Grade 7 Math — Chart Your Path 

Welcome, math explorer!

This journal holds **5 full expeditions** across the entire landscape of Grade 7 math. From the peaks of proportional reasoning to the valleys of negative numbers, every trail is mapped and waiting for you.

-  **Trail 1–2:** Scout the terrain at your own pace
-  **Trail 3–4:** Push deeper with timed conditions
-  **Trail 5:** Summit the mountain — full test simulation

Every great explorer starts with a single step.

Yours starts on the next page.

“ Five trails gives you the journey every explorer needs: discover, practice, and conquer. Pack your pencils — the expedition begins! ”



Trail Guide

Your route map for 5 math expeditions

What's in This Journal

- **5 Full-Length Practice Tests** — each trail covers all 9 domains of Grade 7 math, from ratios and proportional relationships to probability and compound events.
- **Step-by-Step Answer Explanations** — not just answers, but a guided walkthrough of every solution path.
- **Expedition Log** — chart your scores, note tricky terrain, and celebrate the trails you've conquered.

Your 5-Trail Itinerary

Spread your trails over several weeks for the best journey:

Week 1: Trail 1 — untimed. Explore the landscape. Mark unfamiliar territory.

Week 2: Study the rough terrain from Trail 1. Then attempt Trail 2 (soft timer).

Week 3: Trail 3 — timed (65 min). Compare with Trail 1 to see growth.

Week 4: Focus on weak spots. Trail 4 — timed. Practice showing all work.

Week 5: Trail 5 — full conditions. The summit attempt!

Multiple Choice

Navigate four options and select the best path. Eliminate wrong answers first — like crossing streams off a map.

 **Explorer's tip:** Work the problem yourself before reading the choices.

Constructed Response

Show every calculation, label every unit, and explain your reasoning. Like a field journal, your work tells the full story.

 **Explorer's tip:** Even a partial trail earns credit. Never leave it blank.

Survival Skills

Essential navigation strategies for every trail

The Four-Point Compass

↑ **N** — *Note the key info*

Circle numbers. Underline the question.

← **W** — *Weigh your answer*

Does it match the question and estimate?

→ **E** — *Estimate first*

Get a ballpark answer before solving.

↓ **S** — *Solve step by step*

Write equations. Show every operation.

Grade 7 Terrain Warnings

 **Negative numbers:** Watch signs when multiplying and dividing rational numbers.

 **Proportions:** Make sure both ratios compare the same quantities in the same order.

 **Percent problems:** Identify whether you need the part, the whole, or the percent.

 **Geometry:** Label all measurements and don't confuse area with perimeter, or surface area with volume.

 **Probability:** Read whether the question asks for theoretical or experimental probability.

 Pacing Your Trek

- Trails 1–2: Untimed (explore freely)
- Trails 3–4: Timed (65 minutes)
- Trail 5: Strict test conditions
- Don't sprint — steady pace wins

 After Each Trail

- Read every answer explanation
- Mark the topic, not just the question
- Log your results in the Expedition Log
- Study rough terrain before the next trail



“ The best explorers don't avoid rough terrain — they study it. Every wrong answer is a trailhead to a deeper understanding. Follow those paths. ”



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Math Reference Sheet

You may use this page during your practice tests!

Symbol	Name	What It Means
$()$	Parentheses	Do this part first. $(3 + 4) \times 2 = 14$
10^3	Exponent	Multiply the base by itself that many times. $10^3 = 1,000$
$\frac{a}{b}$	Fraction	a parts out of b equal parts; also means $a \div b$.
$\frac{7}{3}$	Improper Fraction	Numerator $\geq$ denominator. $\frac{7}{3} = 2\frac{1}{3}$
0.45	Decimal	A number with a decimal point. $0.45 = \frac{45}{100}$
$> < =$	Comparison	Greater than, less than, equal to. $0.5 > 0.35$
$(3,5)$	Ordered Pair	A point on the coordinate plane: (x, y) .

Key Formulas

- Volume of a rectangular prism:

$$V = l \times w \times h$$

- Order of operations:

Parentheses $\rightarrow$ Exponents $\rightarrow$ Multiply/Divide
 $\rightarrow$ Add/Subtract

- Powers of 10:

$$10^1 = 10 \quad 10^2 = 100$$

$$10^3 = 1,000 \quad 10^4 = 10,000$$

- Fraction as division:

$$\frac{a}{b} = a \div b$$

Place Value Chart

Millions	1,000,000
Hundred-Thousands	100,000
Ten-Thousands	10,000
Thousands	1,000
Hundreds	100
Tens	10
Ones	1

Decimals

Tenths	0.1
Hundredths	0.01
Thousandths	0.001

Each place is $10\times$ the place to its right, and $\frac{1}{10}$ of the place to its left.

Key Math Vocabulary

- **Sum** — the result of addition
- **Difference** — the result of subtraction
- **Product** — the result of multiplication
- **Quotient** — the result of division
- **Remainder** — what's left over after dividing
- **Factor** — a number you multiply
- **Expression** — numbers and operations without =
- **Equation** — a math sentence with =
- **Numerator** — the top number of a fraction
- **Denominator** — the bottom number of a fraction
- **Mixed number** — a whole number + a fraction
- **Equivalent fractions** — fractions with equal value
- **Decimal** — a number written with a decimal point
- **Volume** — the space inside a 3D shape
- **Coordinate plane** — a grid with x and y axes
- **Ordered pair** — (x, y) location on the plane

Word Problem Clue Words

- **Add (+)**: total, altogether, combined, sum, increase, more than
- **Subtract (−)**: difference, how many more, fewer, remain, decrease, left
- **Multiply (×)**: each, every, groups of, times, product, per, of (with fractions)
- **Divide (÷)**: share equally, split, each group, how many groups, quotient, per



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PREVIEW



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PREVIEW

PRACTICE TEST

1

Practice Test 1

 10 Questions

Before You Start

- ✓ *Read each question carefully before choosing your answer.*
- ✓ *Show your work on scratch paper when you need to.*
- ✓ *Skip hard questions and come back to them later.*
- ✓ *Check your answers when you're done.*
- ✓ *Take your time — there's no rush!*

★ *You've Got This!* ★

Do your best and show what you know!



1. On a proportional graph, the point $(1, r)$ represents:

- (A) The x -intercept
- (B) The constant of proportionality
- (C) The slope of the line
- (D) Both B and C

2. Runner A passes through $(2, 10)$ and Runner B passes through $(2, 8)$. Both start at $(0, 0)$. Who is faster?

- (A) Runner A
- (B) Runner B
- (C) They are the same speed
- (D) Cannot be determined

3. A recipe for 4 people uses $\frac{3}{2}$ cups of rice. How much rice is needed for 10 people?

- (A) $2\frac{1}{2}$ cups
- (B) 3 cups
- (C) $3\frac{3}{4}$ cups
- (D) 5 cups

4. A baker made 120 cupcakes and sold 90 of them. What percent of the cupcakes were sold?

- (A) 60%
- (B) 70%
- (C) 75%
- (D) 80%

5. A delivery app charges a \$3 flat fee plus a 10% service fee on your order. If your order is \$30, what is the total?



- (A) \$33.00
- (B) \$33.30
- (C) \$36.00
- (D) \$36.30



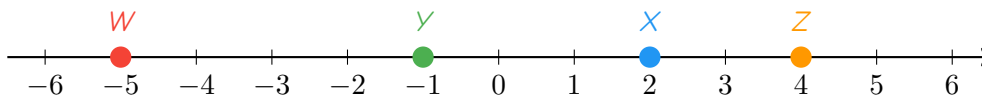
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6. You guessed there were 300 people at a concert. The actual attendance was 350. Find the percent error (rounded to the nearest tenth).

Your Answer:

7. Look at the number line. Which point has the greatest absolute value?



- $\textcircled{A}$ W

- $\textcircled{B} \times$

- ③ y

- (D) Z

8. What integer must you add to -15 to get -6 ?

Your Answer:

9. What is the value of $3x - 5$ when $x = 4$?

- Ⓐ 2

- (B) 7

- © 17

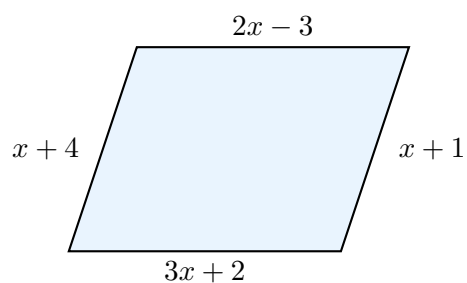
- Ⓓ -2



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10. The lengths of the four sides of a quadrilateral are shown below. What is the simplified perimeter?



- (A) $7x + 4$ (B) $6x + 4$
- (C) $7x - 4$ (D) $6x + 10$



★ End of Practice Test 1 ★

Great job finishing the test!

My Score

I got _____ out of 10 questions right.

*Check your answers in the **Answer Key** at the back of the book.*

 *Review any questions you missed. That's how we learn!*

Answer Key & Explanations



Answer Key

First try each test on your own, then check your work here.

Practice Test 1 — Answer Key

1 D

2 A

3 C

4 C

5 C

6 $\approx 14.3\%$

7 A

8 9

9 B

10 A

Time to Learn!

Review the explanations below, *especially for the questions you missed*.

Understanding why each answer is correct builds stronger problem-solving skills.

Tip: Circle any questions you got wrong, then read their explanation carefully.

Practice Test 1 — Detailed Explanations

1 At $x = 1$, $y = k \times 1 = k$. So the point $(1, r)$ gives the constant of proportionality, which is also the slope.

2 Runner A: $k = \frac{10}{2} = 5$. Runner B: $k = \frac{8}{2} = 4$. A higher k means faster speed, so Runner A is faster.



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3 Per person: $\frac{3}{2} \div 4 = \frac{3}{8}$ cup. For 10: $\frac{3}{8} \times 10 = \frac{30}{8} = 3\frac{3}{4}$ cups.

4 Divide: $90 \div 120 = 0.75 = 75\%$.

5 Service fee: $30 \times 0.10 = \$3$. Total: $30 + 3 + 3 = \$36$.

6 $\frac{|300-350|}{350} \times 100 = \frac{50}{350} \times 100 \approx 14.3\%$.

7 $|W| = |-5| = 5$, $|X| = 2$, $|Y| = 1$, $|Z| = 4$. Point W has the greatest absolute value at 5.

8 $(-15) + n = -6$, so $n = -6 - (-15) = -6 + 15 = 9$.

9 Substitute: $3(4) - 5 = 12 - 5 = 7$.

10 Add all sides: $(3x + 2) + (x + 1) + (2x - 3) + (x + 4)$. Combine variable terms: $3x + x + 2x + x = 7x$.
Combine constants: $2 + 1 - 3 + 4 = 4$. Perimeter: $7x + 4$.



Well done checking your answers!

Keep practicing to strengthen your skills.



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THANK YOU

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The complete book includes:

- ✓ *All chapters and topics*
- ✓ *Hundreds of practice problems*
- ✓ *Complete answer key with explanations*
- ✓ *Colorful visuals and step-by-step examples*
- ✓ *Reference sheets and progress trackers*

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