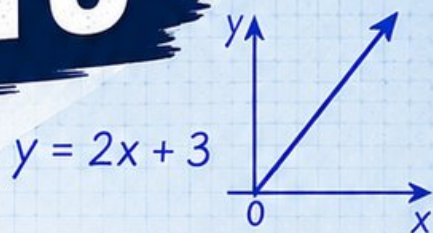


# 3 California CAASPP

GRADE  
**6**  
MATH

## PRACTICE TESTS

Standards Aligned Problem Solving  
For Comprehensive Assessment Programs



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

36% of 150 = ?



**3** | PRINTED  
TESTS



**2** | ONLINE  
TESTS



Build  
Confidence



Master Key  
Math Skills



Answer Explanations  
for Every Question



Test-Taking  
Strategies That Work

# 3 California CAASPP Grade 6 Math Practice Tests

*Standards-Aligned Coast-To-Mountain Problem Solving for California Assessment of Student Performance and Progress*



Three complete 40-question Grade 6 practice rounds for CAASPP, built for coast-to-mountain problem solving with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, California Math Explorer!

Three focused rounds using coast-to-mountain problem solving

This book gives you three full Grade 6 practice tests for CAASPP. Each round uses coastal routes, valley grids, and mountain switchbacks as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

## Your California Practice Promise

Read like a navigator: follow labels, track units, and prove why the answer fits.

Read

Plan

Check

## How to Use This Book

A three-session routine for coast-to-mountain problem solving

1. **Work in order.** Take one 40-question test at a time in a quiet place.
2. **Preview the skills.** Scan the quick review pages before beginning the first round.
3. **Correct actively.** Retry missed items before reading the full explanation.
4. **Mark confidence.** Put a small star beside problems where your plan felt strong.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

**California review rhythm:** Alternate full tests with review days so every correction becomes a new strategy.



## What Is Inside?

Three CAASPP tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Coast-to-mountain problem solving means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!  
For more practice  
& answers

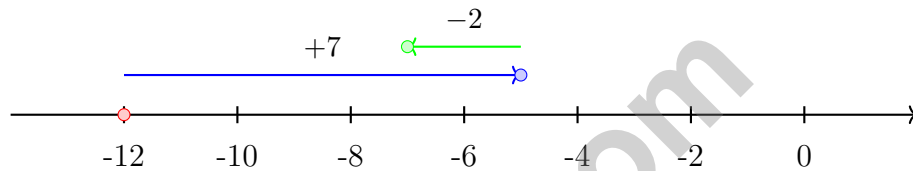
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1) A scientist records bird counts at different altitudes. The stem-and-leaf plot uses a 2-digit stem (like 15, 16, 17). If stem 16 has leaves 0, 3, 7, what are the data values?

- A. 160, 163, 167                       D. Cannot determine without the full plot  
 B. 16, 16, 16  
 C. 1603, 1663, 1673

2) What is  $-12 + 7 + (-2)$ ?



- A. -21                                       C. 7  
 B. -7                                         D. 21

3) A company charges \$25 per hour plus a \$50 service fee. Which expression represents the total cost for  $h$  hours of work?

- A.  $25h + 50$                                C.  $50h + 25$   
 B.  $25 + 50h$                                D.  $25h - 50$

4) A cube has edge length 5 cm. One face is painted red. How many edges of the cube are adjacent to the red face?

- A. 2     C. 6  
 B. 4     D. 8



- 5) A store charges the same price per item. Three customers bought items with these totals:

Number of Items	Total Cost (\$)
3	15
7	35
10	45

Which customer paid an incorrect total if the unit price is constant?

- A. The first customer (3 items)       D. All customers paid the correct amount
- B. The second customer (7 items)
- C. The third customer (10 items)
- 6) A clothing store stocks shirts and pants in a 3 : 2 ratio. If the store has 24 shirts, how many pants does it have?

- 7) What is 0.43 as a percent?
- A. 4.3%       C. 0.43%
- B. 43%       D. 430%
- 8) In a survey, 72% of 250 people prefer coffee. How many people prefer coffee?
- A. 108       C. 162
- B. 144       D. 180



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For more practice  
& answers

- 9) A cookie recipe serves 8 people and uses  $\frac{3}{4}$  cup of butter. How much butter is needed to serve 4 people?
- A.  $\frac{1}{4}$  cup                       C.  $\frac{1}{2}$  cup  
 B.  $\frac{3}{8}$  cup                       D.  $\frac{2}{3}$  cup
- 10) A tape measure shows a width of 90 centimeters. How many millimeters is this? (Use 1 centimeter = 10 millimeters.)
- A. 900 mm                       C. 9,000 mm  
 B. 9 mm                       D. 0.9 mm
- 11) A school employee earns \$2500 per month. His retirement contribution is 6% of his salary. How much is deducted for retirement each month?
- A. \$100                       C. \$200  
 B. \$250                       D. \$150
- 12) A cyclist travels at 15 miles per hour. Which equation represents the distance  $d$  (in miles) after  $t$  hours?
- A.  $d = 15t$                        C.  $t = 15d$   
 B.  $d = 15 + t$                        D.  $d = 15t + 1$
- 13) A business had a monthly budget of \$8000. They overspent by \$1200. What is the actual spending, and what percent over budget were they?
- A. Spent \$9200; 15% over                       C. Spent \$6800; 15% under  
 B. Spent \$9200; 13% over                       D. Spent \$9200; 12% over



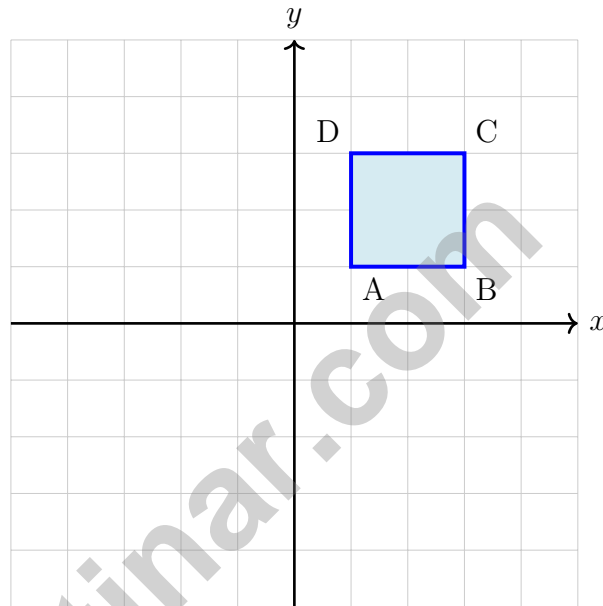
1) What is  $4,752 \div 24$ ?

A. 198

C. 202

B. 200

D. 206



2)

A square  $ABCD$  has vertices at  $(1, 1)$ ,  $(3, 1)$ ,  $(3, 3)$ , and  $(1, 3)$ . If the square is translated 2 units left, which will be the image of vertex  $C$ ?

A.  $(1, 3)$

C.  $(1, 1)$

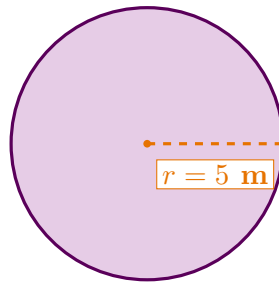
B.  $(3, 3)$

D.  $(3, 1)$



Scan me!  
For more practice  
& answers

Shaded Circle



3)

The shaded circle has a radius of 5 meters. Using  $\pi \approx 3.14$ , what is the approximate area?

- A.  $15.7 \text{ m}^2$
- C.  $78.5 \text{ m}^2$
- B.  $31.4 \text{ m}^2$
- D.  $157 \text{ m}^2$



4)

What is the area of the parallelogram shown above?

5) Read the question: “What is the temperature in my room right now?”

Why is this NOT a statistical question?

- A. It does not mention many people.
- D. It has one fixed answer at one moment in time.
- B. It is asked too quickly.
- C. Temperature is hard to measure.

1) A graph shows distance (in kilometers) versus time (in hours). The line passes through  $(0,0)$  and  $(2,120)$ . What is the speed in kilometers per hour?

A. 60 km/h

C. 2 km/h

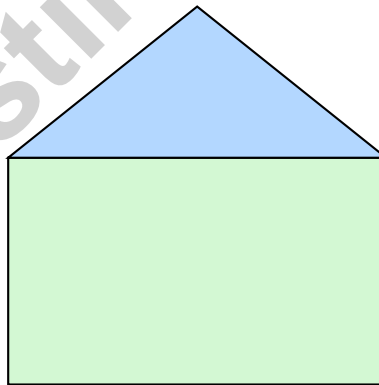
B. 120 km/h

D. 240 km/h

2) Find  $|-18|$ .

3) A composite shape consists of a rectangle and a triangle. The rectangle is 10 cm by 6 cm. The triangle sits on top with a base of 10 cm and height 4 cm. What is the total area of the composite shape?

Triangle: base 10 cm, height 4 cm



Rectangle:  $10 \times 6$  cm

A.  $40 \text{ cm}^2$

C.  $80 \text{ cm}^2$

B.  $60 \text{ cm}^2$

D.  $100 \text{ cm}^2$

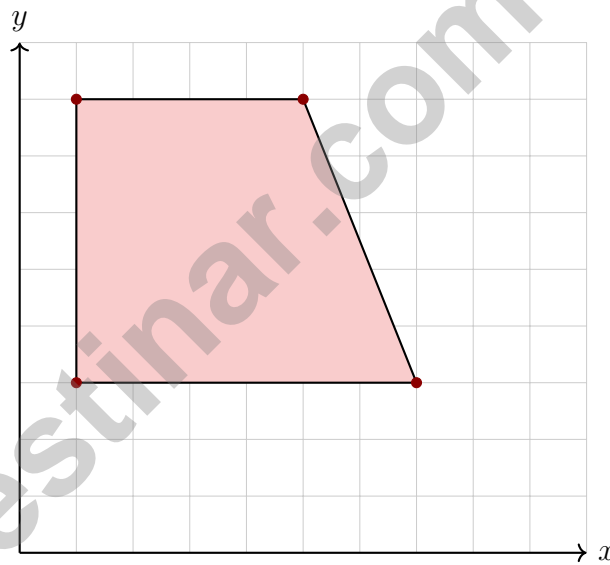


4) Which statement correctly identifies the height of a parallelogram?

- A. The height is the length of one of the slanted sides.
- B. The height is the perpendicular distance between two parallel sides.
- C. The height is the same as the longer base.
- D. The height is always equal to one side length.

5) A rectangular prism has dimensions 5 cm by 5 cm by 2 cm. What is the volume?

- A.  $12 \text{ cm}^3$
- B.  $25 \text{ cm}^3$
- C.  $50 \text{ cm}^3$
- D.  $75 \text{ cm}^3$



6)

What is the length of the top side?

- A. 4 units
- B. 5 units
- C. 6 units
- D. 7 units



Scan me!  
For more practice  
& answers

## California CAASPP Practice Test Answer Keys

**How to use this California CAASPP answer section with a Grade 6 student:**

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to coast-to-mountain problem solving
3. rework the problem before reading the full explanation, using this reminder:  
Read like a navigator: follow labels, track units, and prove why the answer fits.

**A calm California correction routine turns every missed item into useful practice. Alternate full tests with review days so every correction becomes a new strategy.**



Scan me!  
For more practice  
& answers

## California Practice Test Answers and Explanations

Review the three printed CAASPP tests with flexible, prepared, and ready for a new route habits.

### Practice Test 1 Answers and Explanations

- Choice A is correct.** **(6.SP.4)** With a 2-digit stem (16), each leaf appends to form the value. Stem 16 with leaves 0, 3, 7 gives values 160, 163, 167.
- Choice B is correct.** **(6.NS.3)**  $-12 + 7 + (-2) = -12 + 7 - 2 = -5 - 2 = -7$ .
- Choice A is correct.** **(6.EE.6)** Hourly cost is 25 per hour (25h). Add the flat service fee of \$50: total =  $25h + 50$ .
- Choice B is correct.** **(6.G.4)** A square face has 4 edges. These 4 edges form the boundary of the square and are shared with 4 adjacent faces on the cube.
- Choice C is correct.** **(6.RP.3)** The unit price from the first customer is  $\$15 \div 3 = \$5$  per item. The second customer:  $\$35 \div 7 = \$5$  per item ✓. The third customer should pay  $10 \times 5 = \$50$ , but only paid \$45. The third customer's total is incorrect.
- The correct answer is 16.** **(6.RP.3)** Shirts are the 3-part amount. Since  $24 \div 3 = 8$ , each part is 8, and pants are 2 parts:  $2 \times 8 = 16$ .
- Choice B is correct.** **(6.RP.3)** Multiply the decimal by 100:  $0.43 \times 100 = 43\%$ .
- Choice D is correct.** **(6.RP.3)** 72% of 250 =  $0.72 \times 250 = 180$  people.
- Choice B is correct.** **(6.RP.3)** For 4 people (half of 8), halve the amount:  $\frac{3}{4} \div 2 = \frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$  cup.
- Choice A is correct.** **(6.RP.3)** Multiply:  $90 \times 10 = 900$  mm.
- Choice D is correct.** **(6.SP.4)** 6% of \$2500 =  $0.06 \times 2500 = \$150$ .
- Choice A is correct.** **(6.EE.9)** The proportional relationship between distance and time is  $d = 15t$ . When  $t = 0$ ,  $d = 0$ , indicating the line passes through the origin. Options B and D include constants (non-proportional), and option C reverses the variables.
- Choice A is correct.** **(6.EE.9)** Actual spending:  $\$8000 + \$1200 = \$9200$ . Percent over:  $\$1200 \div \$8000 = 0.15 = 15\%$ .
- Choice C is correct.** **(6.RP.3)** Multiply the drawing base by the scale: 4 inches  $\times$  2 feet/inch = 8 feet.
- The correct answer is 720 items.** **(6.RP.1)** First, find the unit rate:  $420 \div 7 = 60$  items per hour. Then multiply by 12 hours:  $60 \times 12 = 720$  items.
- Choice D is correct.** **(6.NS.1)**  $\frac{5}{12} \div \frac{5}{12} = \frac{5}{12} \times \frac{12}{5} = \frac{60}{60} = 1$ . Any nonzero number divided by itself equals 1.
- Choice B is correct.** **(6.NS.2)**  $6,300 \div 48 = 131$  remainder 12. So 131 shelves are filled completely.
- Choice B is correct.** **(6.NS.3)**  $4.2 \times 0.5 = 2.1 = 2.10$ . They have the same value; trailing zeros do not change the decimal's worth.
- Choice A is correct.** **(6.NS.4)** Multiples of 10: 10, 20, 30, 40, ... Multiples of 15: 15, 30, 45, ... The least common multiple is 30.
- The correct answer is Girls to boys is 10 : 15 = 2 : 3 (Choice A is correct). Boys to total is 15 : 25 = 3 : 5 (Choice B is correct).** **(6.RP.1)** Choice A is correct because girls to boys is 10 : 15, which simplifies to 2 : 3. Choice B is correct because boys to total is 15 : 25, which simplifies to 3 : 5. The other choices either flip the order, swap which group is named first, or use the wrong total (10 girls out of 25 students is 2 : 5, not 1 : 3).
- Choice A is correct.** **(6.NS.4)** Left ribbon:  $3(5 + 7) = 36$ . Right ribbon:  $2(5 + 7) = 24$ . Stack them openly:  $3(5 + 7) + 2(5 + 7) = 60$ . Option B subtracts instead of adds; option C skips half the rectangles; option D wrongly multiplies inside the parentheses.
- Choice D is correct.** **(6.NS.5)** The difference is  $180 - (-250) = 180 + 250 = 430$  meters.
- Choice A is correct.** **(6.SP.4)** Computing:  $|-2| = 2$ ,  $|-5| = 5$ ,  $|6| = 6$ ,  $|-9| = 9$ . In order:  $2 < 5 < 6 < 9$ .
- Choice A is correct.** **(6.SP.4)** On a number line,  $-2.5$  is to the left of  $-2$ , making it less than  $-2$ .
- Choice C is correct.** **(6.NS.8)** Point R is at (4, -3). Reflecting across the y-axis gives (-4, -3), which is in Quadrant III (both coordinates negative).
- The correct answer is 0.25 cup.** **(6.RP.2)**  $8 \div 32 = 0.25$  cups (or  $\frac{1}{4}$  cup) per serving.



**A Note From Your Math Friend**

---

**Hi, Math Star!**

◇ Wow! You finished 3 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 3 tests, you learned that trying is the most important thing. ★

**Look What You Did!**

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

**Big tip for test day:** take your time. Read each problem twice. Show your work. Check your answer. You can do this!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Friend

# PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

Perfect for classroom use, homework, test preparation, and extra practice at home.

## THIS BOOK INCLUDES:

- 3 Full-Length Printed Tests
  - 2 Online Practice Tests
-  Detailed Answer Explanations

## MORE PRACTICE. GREATER RESULTS.

Give your child the tools to build strong math skills, confidence, and a positive attitude toward learning.

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Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



### Test Confidence

Familiarize with test formats and improve accuracy and speed.



### Achieve Success

Build confidence and perform your best on test day.

## TOPICS COVERED

- ✓ Ratios & Rates
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



## 2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.



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