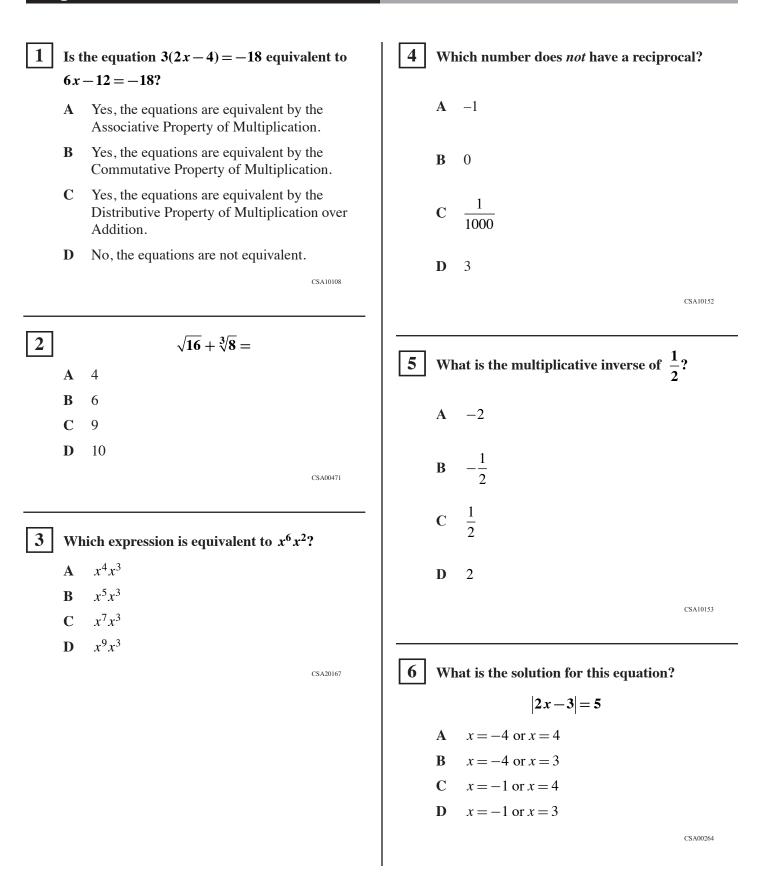
### Algebra I





— 6 — This is a sample of California Standards Test questions. This is NOT an operational test form. Test scores cannot be projected based on performance on released test questions. Copyright © 2008 California Department of Education.

### **Released Test Questions**

### What is the solution set of the inequality $5-|x+4| \le -3?$

Α  $-2 \le x \le 6$ 

$$\mathbf{B} \qquad x \le -2 \text{ or } x \ge 6$$

- **C**  $-12 \le x \le 4$
- **D**  $x \leq -12$  or  $x \geq 4$

CSA10036

### 8

7

Which equation is equivalent to 5x-2(7x+1)=14x?

- Α -9x - 2 = 14x
- B -9x+1=14x
- -9x + 2 = 14xС
- 12x 1 = 14xD

CSA00206

### 9 Which equation is equivalent to

4(2-5x) = 6 - 3(1-3x)?

- 8x = 5Α
- B 8x = 17
- С 29x = 5
- 29x = 17D

CSA00059

10 The total cost (c) in dollars of renting a sailboat for *n* days is given by the equation

c = 120 + 60n.

If the total cost was \$360, for how many days was the sailboat rented?

2 A

- B 4
- С 6
- D 8

CSA00485

Algebra I

35
35
35
20
- 4

Which is the first *incorrect* step in the solution shown above?

- Α Step 1
- B Step 2
- Step 3 С
- Step 4 D

CSA00332

12 A 120-foot-long rope is cut into 3 pieces. The first piece of rope is twice as long as the second piece of rope. The third piece of rope is three times as long as the second piece of rope. What is the length of the longest piece of rope?

- 20 feet Α
- B 40 feet
- С 60 feet
- D 80 feet

## Algebra I

- 13 The cost to rent a construction crane is \$750 per day plus \$250 per hour of use. What is the maximum number of hours the crane can be used each day if the rental cost is not to exceed \$2500 per day?
  - Α 2.5
  - 3.7 B
  - С 7.0
  - D 13.0
  - What is the solution to the inequality x - 5 > 14?
    - x > 9Α

14

- B x > 19
- С x < 9
- D x < 19
- **15** The lengths of the sides of a triangle are y, y + 1, and 7 centimeters. If the perimeter is 56 centimeters, what is the value of *y*?
  - 24 Α
  - 25 B
  - 31 С
  - D 32

CSA10057

CSA00487

# **Released Test Questions**

16 Which number serves as a counterexample to the statement below?

All positive integers are divisible by 2 or 3. A 100 B 57 С 30 D 25 CSG10197

#### 17 What is the conclusion of the statement in the box below?

If 
$$x^2 = 4$$
, then  $x = -2$  or  $x = 2$ .

**A** 
$$x^2 = 4$$
  
**B**  $x = -2$   
**C**  $x = 2$ 

**D** 
$$x = -2$$
 or  $x = 2$ 

CSA30045

Which of the following is a valid conclusion to the statement "If a student is a high school band member, then the student is a good musician"?

- Α All good musicians are high school band members.
- B A student is a high school band member.
- All students are good musicians. С
- D All high school band members are good musicians.

CSA30095

18

CSA10046