

CST (California Standards Test) Practice Problems – Algebra 1
(Chapter 1) Tools for Algebra

Directions: For each multiple choice problem...use the blank space around each problem to make notes, clarify what the question is asking, write down questions you have, etc. Please show all work to support why you chose each answer.

1.

Which number does *not* have a reciprocal?

- A -1
- B 0
- C $\frac{1}{1000}$
- D 3

2.

Which number serves as a counterexample to the statement below?

All positive integers are divisible by 2 or 3.

- A 100
- B 57
- C 30
- D 25

3.

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”?

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

4.

What is the multiplicative inverse of $\frac{1}{2}$?

- A -2
- B $-\frac{1}{2}$
- C $\frac{1}{2}$
- D 2

5.

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?

- A 2
- B 4
- C 6
- D 8

6.

When is this statement true?

The opposite of a number is less than the original number.

- A This statement is never true.
- B This statement is always true.
- C This statement is true for positive numbers.
- D This statement is true for negative numbers.