**Standard 1 Practice Problems**

1. State the error made in the following distribution. Then complete the distribution correctly.

−4(x + 2) = −4x + 2

1. Solve the following equation and state the properties you used in each step.

3( *x* − 2) − ( *x* + 5) = −22

1. Name the property illustrated in each statement, then find the missing number that makes it correct:
   1. −3+(5+1.5)=(−3+\_\_\_\_)+1.5
   2. 1/8 ⋅ 7 = 7⋅\_\_\_\_\_

4. Name the property illustrated in each statement:

A. 9⋅1/9 = 1

B. 8 + 0 = 8

C. 6(4+x)=24+6x

1. Prove or give a counterexample: *x + x =x2* for all real numbers x.
2. The sum of three consecutive even integers is –66. Find the three integers.

**Standard 2 Practice Problems**

**7.**

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**8.**

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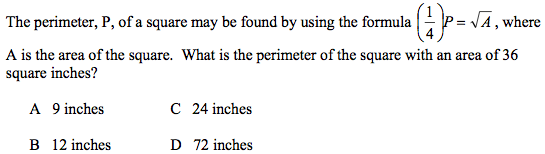
**9.**

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**10.**

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**11.**



12a.Write a number

b. Write the opposite of that number

c. Write the reciprocal of that number