

## Multi-Step Equations Applications Homework

Name \_\_\_\_\_

1. If each side of a square is represented by  $2x + 3$ , and the perimeter is 92, what is the value of  $x$ ?
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- 2) Five packages have weights of  $x$ ,  $3x$ ,  $2x + 4$ ,  $5x - 10$ , and  $x + 5$ . If their combined weight is 95 pounds, what is the value of  $x$ ?
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- 3) Two angles are said to be supplementary if they add up to  $180^\circ$ . If one angle is  $(2n)^\circ$  and the other angle is  $(2n - 40)^\circ$ , what is the value of  $n$  and what are the measures of the two angles?
- 4) The sum of three consecutive even numbers is 138. Set up an equation and find each number.