Name _____ Date_____

Lesson 7: Understanding Equations

Exit Ticket

1. Check whether the given value of x is a solution to the equation. Justify your answer.

   a. $\frac{1}{3}(x+4) = 20$ $\qquad$ $x = 48$

   b. $3x - 1 = 5x + 10$ $\qquad$ $x = -5\frac{1}{2}$

2. The total cost of four pens and seven mechanical pencils is $\$13.25$. The cost of each pencil is 75 cents.

   a. Using an arithmetic approach, find the cost of a pen.

   b. Let the cost of a pen be p dollars. Write an expression for the total cost of four pens and seven mechanical pencils in terms of p.

   c. Write an equation that could be used to find the cost of a pen.

d. Determine a value for p for which the equation you wrote in part (b) is true.

e. Determine a value for p for which the equation you wrote in part (b) is false.