Module 3

Name _____ Period _____ Grade 7

Lesson 7: Understanding Equations

Exit Ticket

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

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

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

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.

Exit Ticket Lesson 7 Continued

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.

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Lesson 8: Using If-Then Moves in Solving Equations

Exit Ticket

Mrs. Canale's class is selling frozen pizzas to earn money for a field trip. For every pizza sold, the class makes $5.35. They have already earned $182.90 toward their $750 goal. How many more pizzas must they sell to earn $750? Solve this problem first by using an arithmetic approach, then by using an algebraic approach. Compare the calculations you made using each approach.