

Math 9 – Unit 4: Word Problems

Name: _____

Lesson #4: Solving Word Problems involving Cost

Date: _____

Learning Goal: We are learning to solve word problems involving cost.

To solve a word problem involving cost, we will use a chart instead of a “LET” statement.

a) Matthew has \$0.85 in nickels and dimes. He has 2 more nickels than dimes. How many of each coin does he have?

b) A jar contains \$18.50 in dimes and quarters. If there are 110 coins in the jar, determine the number of dimes and the number of quarters.

c) Tickets to a concert cost \$9.00 for adults and \$6.50 for students. A total of 950 people paid \$7675.00 to attend. How many students attended the concert?

d) Timothy needed to do some Christmas shopping, so he took a hammer to his piggy bank and smashed it open. Timothy noticed that he has 4 times the amount of dimes than nickels, 8 more quarters than nickels, half the number of toonies than nickels, and twice the number of loonies as quarters. Timothy counted a total of \$55. How many of each coin does he have? (After doing this, Timothy added "Piggy Bank" to his Christmas list).

Success Criteria:

- I can write the value of common coins as a decimal (Quarter = 0.25, etc...)
- I can set up a chart to represent the given information and unknowns