Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

Ms. Williams and Ms. Narracci  691

Solving Algebraic Equations

**Part 1:** Select the correct equation.

1) Sam buys 4 CDs for the same

price, and also a cassette tape

for $8.50. His total bill was

$64.46. Use “x” to represent

the cost of one CD.

A 4x – 8.50 = 64.46

B 4 + 8.50x = 64.46

C 64.46 + 8.50 = 4x

D 4x + 8.50 = 64.46

2) Anthony buys 8 books for

the same price, and also a

video for $15. His total bill

was $107. Use “b” to

represent the cost of one

book.

A 15 – 107 = 8b

B 15 + 8b = 107

C 8b = 107

3) A shoebox with a pair of shoes

in it weighs 2.4 Kg. The box

weighs 0.3 Kg when empty.

Use “y” to represent the weight of one shoe.

A 2y – 0.3 = 2.4

B 2y = 0.3

C 2y + 0.3 = 2.4

D 2(y + 2.4) = 0.3

**Part 2:** Solve the following Word Problems.

1. Jordan purchases 8 basketballs for the same price, and also a backboard and rim for $115. If his total bill is $295, how much does one basketball cost?

Let b= the cost of the basketballs.

1. Jed buys calculators for his entire class of 25 students. He also buys a yard stick for $8.95. If the total bill was $320.20, how much did each calculator cost? Let “c” represent the cost of one calculator.