Name: SAMPLE

Systems of Equations Word Problems Checkpoint

1) Tyrel and Dalia bought some pens and pencils. Tyrel bought 4 pens and 5 pencils which cost him \$6.71. Dalia bought 5 pens and 3 pencils which cost her \$7.12. How much does a pen cost and how much does a pencil cost?

$$25x + 15y = 35.60$$

$$-12x + 15y = 20.13$$

$$13x = 15.47$$

$$-13$$

2) You have just enough money, in quarters and dimes, to pay for a loaf of bread priced at \$1.95. You have 12 coins. How many dimes do you have; how many quarters?

$$10d + 25q = 195 \qquad 10d + 25q = 195
d + q = 12 -10d + 10q = 120
15q = 75
-15 -15$$

$$d+9=12$$
 $d+5=12$
 $1d=71$

3) You have \$22 in your bank account and deposit \$11.50 each week. At the same time your cousin has \$218 but is withdrawing \$13 each. After how many weeks will you and your cousin's account have the same amount

$$22+11.50 = 218 - 13 \times$$

$$22 + 24.5 x = 218$$
 -22