Point Slope Form Word Problems Name Date Class

1. You are an avid coin collector. You decide to start keeping better track of your coin collection: After 15 days you count and find out you have 155 coins. After 22 days you have a total of 218 coins.
   1. Write an equation in POINT-SLOPE form that represents this situation (define your variables)
   2. Convert your equation to Slope-Intercept form
   3. What does your Slope represent?
   4. How many Coins did you start with?
   5. After how many days would you have 425 coins?
2. You figured out that you could make $50 per pool to clean pools during the summer. You did, however,

need to purchase some equipment to get started. After cleaning 3 pools you still were down a total of 15

dollars.

* + 1. Write an equation in POINT SLOPE form that represents this situation
    2. Convert your equation into SLOPE INTERCEPT form:
    3. What does the y-intercept represent?
    4. How much money will you have made after cleaning 12 pools.

1. A zoo keeper thinks there is a problem with the Naked Mole-Rat population at the zoo. He starts

keeping track of the animals in the tunnels. 7 days into his monitoring he counts 120 mole rats, 13 days

in he counts 108.

* 1. Write an equation in POINT-SLOPE form that represents this situation (define your variables)
  2. Convert your equation to Slope-Intercept form.
  3. What does your Slope represent?
  4. If nothing changes, how many days will go by before the mole-rats are gone?
  5. How many Mole-Rats where there when he started monitoring?

1. You are visiting Baltimore, MD and a taxi company charges a flat fee of $3.00 for using the taxi and $0.75 per mile.
2. Write an equation that you could use to find the cost of the taxi ride in Baltimore, MD. Let x represent the number of miles and y represent the total cost.
3. How much would a taxi ride for 8 miles cost?
4. If a taxi ride cost $15, how many miles did the taxi travel?