Name _____ Date _____

Writing & Solving Equations

Write and solve an equation for each situation.

1. You are buying bottles of glue for Mrs. Perry's class. A bottle of glue is $0.74. Write an equation relating the total cost (c) to the number of glue bottles (g) you purchase.

   Define your variable: _____

   Write the equation: _____

   What is the total cost if you purchase 7 bottles of glue?

2. A data plan for your cell phone will cost you $29.99 per month. Write an equation relating the total cost (c) to the number of months (m) you have the data plan.

   Define your variable: _____

   Write the equation: _____

   What is the total cost of your cell phone plan for 12 months?

3. Some cell phone companies offer a cheaper data plan, but you have to pay a one time sign up fee. The sign up fee is $375 and the cost is $25 per month. Write an equation relating the total cost (c) to the number of months (m) you have this data plan.

   Define your variable: _____

   Write the equation: _____

   What is the total cost of your cell phone plan for 12 months?

4. You can download songs online for $0.99 each. Write an equation relating the total cost (c) to the number of songs (s) you download.

   Define your variable: _____

   Write the equation: _____

   How much would 50 songs cost?

5. Another website allows you to download songs for $.75 each, but you pay a sign up fee of $15. Write an equation relating the total cost (c) to the number of songs (s) you download.

Define your variable: _____

Write the equation: _____

How much would 50 songs cost on this website?

6. You and your friends go out to lunch. Each of you buys a soda for $2 and you buy a plate of nachos for $7.50 that you all share. Write an equation relating the total cost of lunch (c) to the number of people (p) that go.

Define your variable: _____

Write the equation: _____

How much would it cost for 5 people to go to lunch?

7. A rental car company charges a fee of $0.50 per mile and a flat fee of $250 for renting a car. Write an equation relating the total cost (c) of the car rental to the number of miles (m) driven.

Define your variable: _____

Write the equation: _____

How much will it cost to drive 850 miles?

8. Your parents are renting a moon bounce for your little sister's birthday party. It costs $175 to rent, plus $15 for each day you keep it. Write an equation relating the total cost (c) of the moon bounce to the number of days (d) you keep it.

Define your variable: _____

Write the equation: _____

How much will it cost to keep the moon bounce for 5 days?