Math 8 / 8H

**HW 3.1h**

**Define a variable. Then write and solve an equation to solve each problem.**

1. Ms. Rigby is having her house painted. The painters charge $25 per hour plus materials. The materials cost $500. The total bill is $885. How many hours did they work?
2. Caiden has 53 baseball cards and plans to collect 8 each month. He now has 109 cards. How many months did he collect cards?
3. Seven more than three times a number is 16.
4. Kaiti was baking muffins one day. She burnt half of the muffins she baked, so she made 20 more. Altogether, Kaiti ended up with 29 muffins. How many muffins did she have before she burned the first batch?
5. While at the music store, Drey bought 5 CDs, all at the same price. The tax on his purchase was $6, and the total was $61. What was the price of each CD?
6. Bradley is building a screen door. The height of the door is 1 foot more than twice its width. What is the width of the door if it is 7 feet high?
7. The product of a number and 3 plus 1 is 19.
8. Elle had some boxes, but she bought seven more boxes. A week later half of all her boxes were destroyed in a fire. There are now only 11 boxes left. With how many boxes did Elle start?