	ons and Problem Solving heet #1	Name	
Instructions:		Date	Pd
	<ol> <li>Identify all of the given information and assign a variable.</li> <li>Write a verbal model.</li> <li>Write and solve the resulting equation.</li> <li>Check the reasonableness of your solution.</li> <li>Answer the original question in a complete sentence.</li> </ol>		

1. You made a \$35-phone call to Brazil that cost \$3 for the first minute and \$2 for each additional minute. How long did you talk?

2. Kayla and Thomas are jogging on a 10-kilometer course. Kayla jogs at 8 km per hour, and Thomas jogs at 12 km per hour. If Kayla has a 3-kilometer head start, can Thomas catch her?

In 1980, the town of Here had a population of 80,000 and the town of There had a population of 96,000. For the next ten years, the towns increased by 5000 people per year and 3000 people per year, respectively. During which year did the towns Here and There have populations of the same size?

4. You need to display four graphs on a sheet of poster board measuring 84 centimeters wide. If you decide to have a uniform boarder of 8 cm around the edge of the poster board and to space the graphs 4 cm apart, how wide should you make each graph in order to fit all four in a row on the poster board? (Draw a picture.)