Problem Solving Using Equations

1. Eleven increased by x is -20.

2. Twenty more than twice x is negative thirty.

3. The sum of two consecutive integers is 53. Find the integers.

4. Brian bought two shirts for $38. He paid four dollars more for one than the other. How much did he pay for each shirt?

5. A board 72 inches long is cut into two pieces. One piece is 10 inches longer than the other is. How long is each piece?

6. Jennifer is 14 years old. This is four years less than twice her sister's age. How old is her sister?

7. The sum of two consecutive even integers is 70. Find the integers.

8. The sum of three consecutive odd integers is -45. Find the integers.

9. Melanie is twelve years old. This is three years less than one-third her father's age. How old is her father?