Lesson 5 Problem-Solving Practice

Solve Systems of Equations Algebraically

1. GEOMETRY The perimeter of a rectangle is 36 meters. The length of the rectangle is 4 meters longer than the width. Find the length and width of the rectangle.	**2. WOOD** Mildred cut a 9 foot board into two pieces. The long piece is twice as long as the short one. How long is the short piece?
3. SWIMMING POOLS Victor's swimming pool holds 3,000 gallons. He filled the pool using two hoses. The larger hose filled the pool four times as fast as the smaller one. How many gallons of water came from the smaller hose?	**4. FALL** Julio bought a total of 20 medium and large pumpkins. If he spent $53 and bought 6 more large pumpkins as medium pumpkins, how many large pumpkins did he buy? **Pumpkins** Large - $3 Medium - $2 Small - $1
5. MUSIC Mr. Winkle downloaded 34 more songs than Mrs. Winkle downloaded. Together they downloaded 220 songs. How many songs did each download?	**6. BAND** The seventh and eighth grade bands held a joint concert. Together there were 188 band members. If the eighth grade band is 3 times as big as the seventh grade band, how big is the eighth grade band?
7. WORK Amal worked a total of 30 hours last week. On Saturday and Sunday he worked 5 times as many hours than he worked the rest of the week. How many hours did he work the rest of the week?	**8. RAIN** During the months of August and September the total rainfall was 6.2 inches. If the rainfall in August was 0.6 inch more than the amount of rainfall in September, how much rain fell in each month?