1. $\boxed{37,\ 47,\ 89}$

2. $\boxed{\text{bonds: \$28,000, stocks: \$12,000}}$

3. $\boxed{2 \text{ days}}$

4. This problem may have been graded incorrectly. The information tells us 500,000 square feet is 1.5 times its present space. If x is the area of the present office space, then $500000 = 1.5x$. This means the present office space is $x = \boxed{333{,}333 \text{ sq ft}}$.

5. $\boxed{6 \text{ hr}}$

6. The information tells us that in 1982 there were 300,000 cars sold. The decline in car sales was $\frac{1}{6}$ of the sales in 1979 minus 3,000. This means if we let the number of cars sold in 1979 be x, we get the following equation:

$$\begin{aligned} 300000 &= x - (\frac{1}{6}x - 3000) \\ 300000 &= x - \frac{1}{6}x + 3000 \\ 297000 &= \frac{5}{6}x \\ x &= \boxed{356,400} \end{aligned}$$

   Now this means the decline in car sales in 1982 was $356400 - 300000 = \boxed{56{,}400}$.

7. We need to first find the rates at which the pipes fill the reservoir. Pipe A fills $\frac{1}{15}$ of the reservoir in one day. Pipe B fills $\frac{1}{20}$ of the reservoir in one day.

   Pipe A is on for 2 days, filling a total of $2 \times \frac{1}{15} = \frac{2}{15}$ of the reservoir, before it breaks down. This leaves $\frac{13}{15}$ of the reservoir left for Pipe B to fill. Pipe B will now take $\frac{13}{15} \div \frac{1}{20} = \boxed{\frac{52}{3} = 17\frac{1}{3} \text{ days}}$ to finish filling the reservoir.

8. Before the second bus leaves the station, the first bus has already travelled $56 \times 0.5 = 28$ miles. If we let t be the time, in hours, it takes for the second bus to catch the first bus, we get the following equation:

$$\begin{aligned} 28 + 56t &= 60t \\ 28 &= 4t \\ t &= \boxed{7 \text{ hrs}} \end{aligned}$$

9. Say the wrestlers weighed x, y pounds respectively. After the first wrestler gains 15% of his weight, he then weighs $1.15x$ pounds. After the second wrestler loses 10% of his weight, he then weighs $0.9y$ pounds. We now have the following system of equations:

$$\begin{cases} x + y & = 450 \\ 1.15x + 0.9y & = 461.25 \end{cases}$$

Solving gives us $x = y = \boxed{225 \text{ lb}}$.

10. With tail wind, the jet travels at a rate of $\frac{500 \text{ km}}{\frac{40}{60} \text{ hr}} = 750$ km/hr. With head wind, the jet travels at a rate of $\frac{500 \text{ km}}{\frac{50}{60} \text{ hr}} = 600$ km/hr.

We know that if the jet's speed is j and the wind's speed is w, then with tail wind the jet travels at a rate of $j + w$ and with head wind the jet travels at a rate of $j - w$. This gives us the following system of equations to solve:

$$\begin{cases} j + w & = 750 \\ j - w & = 600 \end{cases}$$

Solving gives us $j = 675$ km/hr, $w = \boxed{75 \text{ km/hr}}$.