8.5 CA S.O.E. Name: _____
Percent Applications

1. Sally's $1800 savings is in two accounts. Her total interest for the year was $93 from one account earning 6% interest and another earning 3% interest. How much does she have in each account?

2. A woman invests S4000 in two accounts, one at 6% interest, the other at 9% interest for one year. At the end of the year she had earned S270 in interest. How much did she have invested in each account?

3. John invests S5000 in one account and S8000 in an account paying 4% more in interest. He earned S1230 in interest after one year. At what rates did he invest?

4. A chemistry teacher needs to make 10 L of 42% sulphuric acid solution. The acid solutions available are 30% sulphuric acid and 50% sulphuric acid, by volume. How many liters of each solution must be mixed to make the 42% solution?

5. A chemist has 70 mL of a 50% methane solution. How much of a 80% solution must she add so the final solution is 60% methane?

6. A solution of **pure** antifreeze (i.e. 100%) is mixed with water to make a 65% antifreeze solution. How much of each should be used to make 70 L?

7. A farmer has two types of milk, one that is 24% butterfat and another which is 18% butterfat. How much of each should he use to end up with 42 gallons of 20% butterfat?