Solving Percent Problems

Directions:
Step 1: Draw and label a picture (box method) to represent each scenario.
Step 2: Record the proportion you see in your box method that you could use to solve for x (don't solve). Do this for all problems.
Step 3: Go back to each problem and estimate the value of x; record your methods for estimating.
Step 4: Go back to each problem and SOLVE the proportion you wrote. Make sure this answer makes sense compared with the estimate.

1. A baseball pitcher won 80% of the games he pitched. If he pitched 35 ballgames, how many games did he win?

Step 1:	Step 2:
Step 3:	Step 4:

2. Jerry, an electrician, worked 7 months out of the year. What percent of the year did he work?

Step 1:	Step 2:
Step 3:	Step 4:

3. A metal bar weighs 8.15 ounces. 93% of the bar is silver. How many ounces of silver are in the bar? (Round to the nearest thousandth)

Step 1:	Step 2:

Step 3:	Step 4:

4. A woman put $580 into a savings account for one year. The rate of interest on the account was 6½%. How much was the interest for the year in dollars and cents? (Round to the nearest cent)

Step 1:	Step 2:
Step 3:	Step 4:

5. A student answered 86 problems on a test correctly and received a grade 98%. How many problems were on the test, if all the problems were worth the same number of points?

Step 1:	Step 2:
Step 3:	Step 4:

6. Manuel found a wrecked Trans-Am that he could fix. He bought the car for 65% of the original price of $7200. What did he pay for the car? (Round to nearest dollar)

Step 1:	Step 2:
Step 3:	Step 4:

7. Pamela bought an electric drill at 85% of the regular price. She paid $32.89 for the drill. What was the regular price? (Round to the nearest cent)

Step 1:	Step 2:
Step 3:	Step 4:

8. Ben earns $12,800 a year. About 15% is taken out for taxes. How much is taken out for taxes?

Step 1:	Step 2:
Step 3:	Step 4:

9. At a sale, shirts were sold for $15 each. This price was 80% of their original price. What was the original price?

Step 1:	Step 2:
Step 3:	Step 4:

10. A $150 snowboard is marked up 30%. What is the new price?

Step 1:	Step 2:

Step 3:	Step 4:

11. A pair of jeans cost $40 last year. This year they cost $48. What was the percent of increase?

Step 1:	Step 2:
Step 3:	Step 4:

12. On a math exam, there were 25 questions. There were 2 extra credit problems as well. If a student got all 27 questions correct and the test was scored out of a total of 25, what percent would the student receive?

Step 1:	Step 2:
Step 3:	Step 4: