Homework #19

Solve: (note: you **must** use equations)

- 1. One side of a rectangle is 4 cm longer than the other and the area is 45 cm². What size is the rectangle?
- 2. Which numbers add to 12 and have the sum of their squares = 90?
- 3. What are the edge lengths of a square if the number of metres in the perimeter of a square is 12 less than the area of the square?
- 4. Which numbers that differ by five, when multiplied together give 84?
- 5. Which two numbers when multiplied together give 125 but when one is divided by the other give 5?
- 6. What four consecutive even numbers add to 852?
- 7. Find a number that when squared is 72 more than the starting number.
- 8. Bill is a third of Tim's age. In eight years' time he will be half his age. How old is Tim?
- 9. A woman had a pair of twins and then three years later a set of triplets. How old are the children if their combined ages is 31?
- 10. What two numbers add to give 3 but subtract to give 13?
- 11. A square's sides are increased by 2 m on each side. If the area increases by 40 m², what was the original square's side length?
- 12. Adult tickets cost \$30 and children's tickets cost \$20. If 400 tickets are sold, and the total money taken is \$9400. How many tickets were adult tickets?