

## Answer on Question #81785 – Math – Algebra

### Question

I think of a number, multiply it by three, and add four. I get twenty two.

- a) Using the statement above, form an equation. Use the letter 'x' for the unknown number.
- b) Solve the equation.

### Solution

- a) Suppose  $x$  is the unknown number.  
After multiplying by three and adding four you will get  $3x + 4$ .  
It equals 22, hence the following equation will be obtained:

$$3x + 4 = 22$$

b)

$$3x + 4 = 22$$

$$3x = 22 - 4$$

$$3x = 18$$

$$x = 18 \div 3$$

$$x = 6$$

**Answer:** a) the equation is  $3x + 4 = 22$ ; b) the unknown number is 6.