You earn \$7.50 per hour at a restaurant. Last week your paycheck was for \$262.50 before taxes were taken out. Write and solve an equation to find out the number of hours you worked.

EQ:
$$7.50h = 262.50$$

 $7.50 = 7.50$
 $h = 35 hm$

2-step equation

Solve this equation and do a Boolean check on your answer.

$$\frac{x-5.4}{7.1} = 3(7.)$$

$$\times -5.4 = 21.3$$

$$+5.4 + 5.4$$

$$\times = 26.7$$

A plumber charges \$75 to come to your house and \$35 an hour for repairs. If the plumber charged you \$355 write and solve an equation to find the number of hours the they must have worked on your repairs.

$$\frac{\text{EQ:}}{75 + 35h} = 365$$

$$-75$$

$$\frac{35h}{35} = 260$$

$$\frac{35h}{35} = 260$$

$$\frac{35h}{35} = 260$$

$$\frac{35h}{35} = 260$$

Boolean Check:

- 1. Enter the answer you are testing
- 2. Press STO→
- 3. Press X,T,θ,n to get X
- 4. Press ENTER (every time you use X it will use this number)
- 5. Enter the left side of the equation
- 6. Press 2nd
- 7. Press MATH
- 8. Press ENTER (this will give you an = sign)
- 9. Enter right of the equation
- 10. Press ENTER

If the result is a 1 then the number you tested IS a solution. If you get a 0 then it is NOT a solution.

Multi-step equations

Solve this equation and do a Boolean check on your answer.

