

5. Jacks Earnings

$$E = 15h + 0.05x$$

hours sales

given $E = \$1000$

$$h = 40$$

find x

$$1000 = 15(40) + 0.05x$$

$$1000 = 600 + 0.05x$$

-600 -600

$$\frac{400}{0.05} = \frac{0.05x}{0.05}$$

$$x = 8000$$

∴ He must sell \$8000 worth of stuff to earn \$1000 in a 40h week.

6. $x + (x+1) + (x+2) = 120$

$$3x + 3 = 120$$

-3 -3

$$\frac{3x}{3} = \frac{117}{3}$$
$$x = 39$$

∴ The numbers are

$$x = 39$$
$$x+1 = 40$$
$$x+2 = 41$$