

I think of a number, x , and then divide it by 4 and add 6. The result is y .

a. Write a formula for y , in terms of x .

b. If the number I thought of is 20, then find the result.

c. If the result is 24, use the formula found in a. to find x .

a. $y = \frac{x}{4} + 6$

b. $y = \frac{20}{4} + 6 = 11$

c. $24 = \frac{x}{4} + 6$

$$\frac{x}{4} = 18$$

$$x = 18 * 4 = 72$$