

**ex1)** A real-estate agent is paid a monthly salary of \$1200 plus commissions. Last month she sold one house for \$197,500 earning a 3% commission on the sale. How much was her commission? What was her total pay for last month?

How much was her commission? How  
Find 3% of #197,500  

$$\frac{part}{whole} = \frac{7}{100}$$
  
 $\frac{\chi}{197,500} \times \frac{3}{100}$   
 $100\chi = 592500$   
 $\chi = 592500$   
Her commission was #5925

## APPLICATIONS OF PERCENTAGES

**ex2)** If the sales tax rate is 6%, how much tax would you pay if you bought one twin pack of black refill cartridges for your printer for \$53.50 and two color cartridges for \$32.25 each?

How much will I pay before tax?  
# 53.50  
+ # 32.25  
+ # 32.25  
# 18  

$$\frac{x}{18} \times \frac{6}{100}$$
  
100x = 70%  
x = 7.08  
I will pay  
#7.08 in tax.

## APPLICATIONS OF PERCENTAGES

**ex3)** You earn \$1070 monthly. Out of that, \$321.00 is withheld for taxes. What percentage of your total earnings are withheld?



$$\frac{part}{whole} = \frac{7}{100} \qquad \frac{321}{1070} \times \frac{x}{100} \\ 1070 \times = 32100 \\ 1070 \times = 32100 \\ \chi = 30$$

## **APPLICATIONS OF PERCENTAGES**

ex4) You work in a store where you earn a commission of 7% on all sales but no weekly salary. What will your weekly sales have to be in order to earn \$441?



 $\frac{part}{whole} = \frac{7}{100} \qquad \frac{441}{x} = \frac{7}{100}$ 7x = 44100

**x** = 6300

Your weekly sales will have to be \$6300 to earn \$441.