1. George saved 35% of the money he earned. If George earned $260, how much did he save?

$$.35(260) = \$91$$

$$\frac{\text{save } x}{\text{t } 260} = \frac{35}{100}$$

2. The seventh grade students at WLMS are going on a field trip. As of today, 85% of the 280 students have turned in their permission slips. How many students have turned in their permission slips?

$$.85(280) = 238 \text{ Studs}$$

$$\frac{\text{turned in } x \text{ stud}}{\text{total } 280} = \frac{85}{100}$$

3. The Smith family spent 28% of its monthly income for housing. If the family's monthly income is $3,200, how much did they spend for housing?

$$.28(3200) = \$896$$

$$\frac{\text{housing } x \quad \$}{\text{ong } 3200} = \frac{28}{100} \quad \%$$

4. The frozen yogurt stand in the mall sells 420 yogurt cups per day. Forty-five percent of the cups are sold to middle school students. How many yogurt cups are sold to middle schoolers each day?

$$.45(420) = 189 \text{ cups}$$

$$\frac{\text{sold to} \atop \text{MS. } x \text{ cups}}{\text{ong } 420} = \frac{45}{100} \quad \%$$

5. Brenda earned $120 per week working at a part-time job. After taxes, her paycheck is only 78% of what she earned. What is the amount of Brenda's check?

$$.78(120) = \$93.60$$

$$\frac{\text{check. } x \quad \$}{\text{total } 120} = \frac{78}{100} \quad \%$$

6. Use the chart below. Suppose a secret message contains 1,200 vowels. How many of the vowels are "E"?

$$.3(1200) = 360 \text{ E's}$$

$$\frac{\text{E } x \text{ vowels}}{\text{ong } 1200} = \frac{30}{100} \quad \%$$

Vowel	Occurred (%)
A	25%
E	30%
I	20%
O	20%
U	5%

7. Jerry took a test with a total of 50 questions. His teacher told him that he must answer 90% of the questions correctly to earn an A. How many questions must he answer correctly to earn the A?

$$.9(50)$$

$$x = 45 \text{ quest}$$

$$\frac{\text{correct } x \text{ quest}}{\text{total } 50} = \frac{90}{100} \quad \%$$

8. A glass of orange juice has 30% of the total daily allowance of calcium. The total daily allowance of calcium is 1,200 milligrams. How much calcium does a glass of orange juice have?

$$.3(1200)$$

$$x = 360 \text{ mg}$$

$$\frac{\text{calc. } x \text{ mg}}{\text{ong } 1200} = \frac{30}{100} \quad \%$$

9. Luis needs $45 to buy his mother a birthday present. He has saved 22% of the amount so far.
   a. How much has he saved?

   $.22(45) = 9.90$ Save $\dfrac{x}{\text{orig } 45} = \dfrac{22}{100}$

   b. How much more does he need?

   $.78(45) = \$35.10$ OR SUBTRACT $45 - 9.90$ or need $\dfrac{x}{\text{orig } 45} = \dfrac{78}{100}$

10. The student population at WLMS is 52% female. The total student population is 1,225 students.
    a. How many girls go to WLMS?

    $.52(1225) = 637$ girls   fem $\dfrac{x}{\text{total } 1225} = \dfrac{52}{100}$

    b. How many boys go to WLMS?

    $.48(1225) = 588$ OR SUBTRACT $1225 - 637$ OR boys $\dfrac{x}{1225} = \dfrac{48}{100}$

11. Lisa spent $18.95 on her lunch. **About**, how much money she should leave for a 20% tip?

    $.2(18.95) = \$3.79$ tip $\dfrac{x}{\text{orig. } 18.95} = \dfrac{20}{100}$

12. In a survey, 500 teenagers were asked to name their favorite sport to watch on television. How many chose:

    Other 5%
    Tennis 12%
    Golf 8%
    Football 25%
    Basketball 20%
    Baseball 30%

    Golf
    Football
    Baseball
    Basketball
    Tennis
    Other
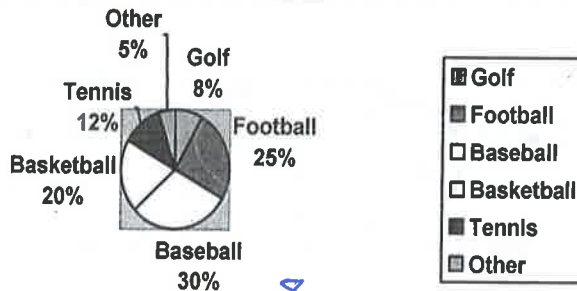
    $\dfrac{x}{500} = \dfrac{20}{100}$ $\dfrac{x}{500} = \dfrac{8}{100}$ $\dfrac{x}{500} = \dfrac{25}{100}$

    a. Basketball:
       $.2(500) = 100$

    b. Golf:
       $.08(500) = 40$

    c. Football:
       $.25(500) = 125$

13. The dinner bill for the Johnson family was $58. Mr. Johnson left a **tip** of 15% of the bill.
    a. What was the **tip**?

    $.15(58) = \$8.70$ tip $\dfrac{x}{\text{total } 58} = \dfrac{15}{100}$

    b. What was the **total cost** of the family's dinner?

    $\$66.70$ $58. + 8.70$

14. A dress is regularly priced at $120, and it is marked 20% **off** the regular price.
    a. What is the amount of savings, or the amount that the dress was marked down?

    $.20(120) = \$24.00$ disc $\dfrac{x}{\text{orig. } 120} = \dfrac{20}{100}$

    b. What was the **new price** for the dress?

    $.80(120)$ OR SUBTRACT
    $\$96.00$ $120 - 24$