

### Calculating Rate of Pay or Hours Worked

- Andrew made \$604.80 by working 40 hours in one week at regular pay. What is his hourly rate of pay?

*Amount earned = rate of pay  $\times$  number of hours*  
*Let 'r' be the rate of pay.*

$$\$604.80 = r \times 40 \text{ hours}$$

*Divide both sides by 40.*

$$\frac{604.80}{40} = \frac{r \times \cancel{40}}{\cancel{40}}$$

$$\frac{604.80}{40} = r$$

$$r = 15.12$$

*Andrew's rate of pay is \$15.12/hour.*

- Ismar works in the meat department at a grocery store that pays him \$12.32/hour. He would like to buy a used snowmobile. At his job, how many hours would it take to earn enough to buy a \$5 000.00 snowmobile?

*cost of snowmobile = rate of pay  $\times$  number of hours*

$$\$5\,000 = \$12.32/\text{hour} \times t \text{ hours}$$

*Divide both sides by 12.32*

$$\frac{5\,000}{12.32} = \frac{12.32 \times t}{12.32}$$

$$\frac{5\,000}{12.32} = t \text{ hours}$$

$$405.84 = t \text{ hours}$$

*Ismar has to work 406 hours to earn enough money to buy the snowmobile.*