

## Linear Relationships

### Extra Practice Items:

1. The following data was taken from a chart in a doctor's office. It lists the weight of a human body and the corresponding volume of blood in the body.

Blood in the Body

Weight (pounds)	90	120	150
Volume of blood (pints)	6	8	10

- Find the volume of blood in a person weighing 195 pounds.
  - Find the weight of a person with 18 pints of blood.
  - Use mathematics to explain how you determined your answers. Use words, symbols, or both in your explanation.
2. The cost of renting a car from A-Plus Rentals is listed in the table below.

A-Plus Rentals

Miles driven	50	100	150
Cost	\$57.50	\$75.00	\$92.50

- Write an equation that represents the relationship between the mile driven and the cost of renting a car.
  - What is the cost of driving 315 miles? Use mathematics to explain how you determined your answers. Use words, symbols, or both in your explanation.
3. The Adams family attends the Parksville Elementary School's Family Fun Day. An admission's fee of \$2 is required from each family entering the school. It will cost \$0.60 to play each game at the Family Fun Day. Write an equation that can be used to determine the total cost the Adams family will spend at the Family Fun Day. Determine the cost that the Adams family will spend if they play 50 games. Use mathematics to explain how you determined your answers. Use words, symbols, or both in your explanation.
4. The senior class needs to rent a punch fountain for a school dance. A rental company charges a flat rate of \$25 plus \$15 per hour. The senior class has \$100 to spend on the punch fountain. How many hours can they rent the punch fountain for? Use mathematics to justify your answer.
5. A sales clerk receives a base salary of \$950 a month plus 6% commission. What are the total sales required for a monthly salary of \$1,310? Use mathematics to explain how you determined your answer. Use words, symbols, or both in your explanation.