## IF ..., THEN ... PROPORTIONS

Application problems that involve rates can be solved using proportions. Be certain to write both ratios in the same order.

Ex. If 3 cans of beans cost \$1.29, then how much will 5 cans cost?

If 3 tea bags are used to make a gallon of tea, then how many are needed to make 2 1/2 gallons?

Write a proportion and solve.

- 1. If 18 copies cost \$1.08, then 30 copies will cost how much?
- 6. If 4 ounces of cheese cost \$1.85, then how much will a pound cost? (Hint: How many ounces equal 1 pound?)
- 2. If the truck used 25 gallons to travel 375 miles, how far can it go with four gallons?
- 7. If two computer games cost \$24.90, then how much will five games cost?
- 3. If two microchips in a batch of 500 are defective, how many in a batch of 2,500 will probably be defective?
- 8. If ribbon costs \$2.50 for 20 inches, then how much does a yard of ribbon cost?
- 4. If a truck driver estimates that it will take 12 hours to travel 624 miles, then how long will it take to go 260 miles?
- 9. If your heart beats 8 times in 6 seconds, then how many times will it beat in 2 minutes?
- 5. If a player gets 54 hits in 225 at bats, then how many hits are expected in 500 at bats?
- 10. If a canary's heart beats 130 times in 12 seconds, then how many times will it beat in 2 minutes?

2