

**Example 1:** Barbara earns \$8 an hour for the first 40 hours she works in a week and \$12 an hour for every hour after that. Each week she has \$123 deducted from her check for income taxes and retirement. What is her take-home pay for a week in which she works 50 hours?

**Example 2:** The most expensive hotel room in a recent study was the Ritz-Carlton at \$495 per night, while the least expensive was Motel 6 at \$66 per night. Find the amount saved in a 4-night stay at the Motel 6 instead of the Ritz-Carlton.

**Example 3:** Jennie makes 24 grapevine wreaths per week to sell to gift shops. She works 40 weeks a year and packages six wreaths per box. If she ships equal quantities to each of five shops, find the number of boxes each store will receive.

**Example 4:** A new bridge from Owensboro, Kentucky to Rockport, Indiana is 2200 feet long and cost \$55,998,800. Find the construction cost per foot.