

### MA 1040 Unit 4 Problem Solving Examples

Paul has a job raking leaves for a neighbor. He makes \$6.50 an hour, plus \$0.75 for each bag he fills. Last Saturday he worked three hours and made a total of \$27.75. How many bags of leaves did he fill?

Isabel is considering a job as a waitress. She would be paid \$8 per hour plus tips. The wait staff have told her that an average tip at that restaurant is \$4.50 per table. If Isabel works 25 hours per week, how many tables would she have to serve in order to make \$362 for the week?

The Swedish Chef Catering Company charges \$50.00 for setup, \$85.00 for cleanup, and the special menu that Judy Carter ordered cost \$23.50 per person. If Judy Carter can only spend \$558 for the party, how many people can she invite?

The camera Melissa wanted for her birthday is on sale at 28% off the usual price. The amount of the discount is \$100.80. What was the original price of the camera?

Alice Swanson got a 3% raise in her salary from last year. This year she is earning \$22,660. How much did she make last year?

The number of women working full-time in Springfield has risen 12% this year. This means 216 more women have full-time jobs. What was the number of women working full-time last year?

Robert Campbell invested some money at 8% simple interest. At the end of the year, the total amount of his original principal and the interest was \$7560. How much did he originally invest?

Little Melinda has nickels and quarters in her bank. She has four fewer nickels than quarters. She has \$3.70 in the bank. How many coins of each type does she have?

Madelyn Logan is an office furniture dealer who earns an \$18,000 base salary. She also earns a 4% commission on sales. How much must she sell to earn a total of \$55,000?

The local animal shelter usually receives twice as many cats as dogs. They estimate that 80% of the cats and 60% of the dogs that come in need some kind of medical treatment. If they treated 286 animals last year, how many cats and dogs did they take in?