

## Two Variable Word Problems

Name: \_\_\_\_\_

- 1.) I have 20 coins in my pocket, all quarters and nickels. Together they give me \$2.80 in change. How many nickels do I have?

Answer: \_\_\_\_\_ nickels.

- 2.) You have \$6 to spend on your two favorite types of candy, York Peppermint Patties and king sized Kit-Kats. York patties cost \$0.40 each and king sized Kit-Kats cost \$0.70 each at Walgreens (both on sale, of course). In order to obtain these prices you must buy 12 bars, but you can mix and match. You want to use all your money on these products. How much of each could you buy if you use the full \$6?

Answer: \_\_\_\_\_ York patties, and \_\_\_\_\_ king-sized Kit-Kats.

- 3.) You do a combination of walking and jogging for one hour in order to get to your gym from your home. You know that your gym is 5.2 miles away from your home, and that you jog an average of 0.1 mile per minute, which is twice as fast as you walk. How many minutes did you jog during the hour?

Answer: \_\_\_\_\_ minutes.

- 4.) Buses from NYC to Jersey run every 10 minutes at rush-hour (3 PM to 7 PM). The 5PM bus has a careful driver who drives an average speed of 30 mph from NYC. The 5:10PM bus has a fast driver who drives an average speed of 45 mph from NYC. How far away from the NYC station will the 5:10PM driver be when he catches up to the 5PM driver?

Answer: \_\_\_\_\_ miles.

- 5.) You are evaluating two different web hosting services for your Internet based company. The first company, Super-Interguys, charges \$19 per month plus \$1 for every gig of uploads by your customers. The second company, Net-Feverpeople, charges \$40 per month, and charges \$0.50 for every gig of uploads by your customers. How many gigs of uploads would you need per month in order to choose Net-Feverpeople over Super-Interguys?

Answer: \_\_\_\_\_ gigs

- 6.) You are also evaluating two phone services for your Internet based company. The first company, PhoneGuys, charges \$10 per month plus \$0.20 per minute. The second company, TelePeople, charges a flat fee of \$50 per month. How many minutes of phone calls would you need per year in order to justify choosing TelePeople over PhoneGuys?

Answer: \_\_\_\_\_ minutes.

- 7.) Your Internet company starts to take off, and you decide to buy a server for the company. A salesman at the store that you've decided to buy from offers two discounts; the discounts can't be used together. The first discount gives you 15% off the total price. The second discount gives a \$300 rebate. The lowest price of a system is \$650. How much would you need to spend in order to choose the 15% discount over the \$300 rebate?

Answer: \$ \_\_\_\_\_