

Some situations are easily written in Slope Intercept form of an equation. $y = mx + b$. Write the equation for the following.

1) Raymond went bowling it costs him \$5 for shoes and \$2 per game.

$$m = \underline{\hspace{2cm}} \quad b = \underline{\hspace{2cm}}$$

2) Stephanie wanted to collect CDs she began with 10 and collect 3 more each week.

$$m = \underline{\hspace{2cm}} \quad b = \underline{\hspace{2cm}}$$

3) Martika baby-sits she charges a flat fee of \$10 plus \$5 per hour.

$$m = \underline{\hspace{2cm}} \quad b = \underline{\hspace{2cm}}$$

Some situations are more easily written in Standard Form of an equation. $Ax + By = C$. Write the equation for the following.

4) It costs \$2 for hotdogs and \$3 for burgers. You have \$15.

$$A = \underline{\hspace{2cm}} \quad B = \underline{\hspace{2cm}} \quad C = \underline{\hspace{2cm}}$$

5) Martika charges \$2 per kid and \$5 per hour to baby-sit. The parents have \$40 to spend.

$$A = \underline{\hspace{2cm}} \quad B = \underline{\hspace{2cm}} \quad C = \underline{\hspace{2cm}}$$

6) Joseph charges \$20 per hour and \$4 per tomato plant to take care of her garden. He charges Ms. Smith \$48.

$$A = \underline{\hspace{2cm}} \quad B = \underline{\hspace{2cm}} \quad C = \underline{\hspace{2cm}}$$

Write the following systems out. DO NOT SOLVE THEM. Make sure to label the variables as well.

7) Together, Bob and Jim have a total of 7 detentions. Jim has 3 more than Bob. How many detentions does Bob have? How many detentions does Jim have?

$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

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8) I have 6 coins in my hand that are either nickels or dimes. The nickels and dimes are worth a total of \$0.40. How many of each do I have?

$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

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