## Writing Equations from a Story:  Practice A

1)  Sam runs 5 miles before school everyday to train for the big track meet.  After school, he also runs at rate of 2 miles per hour.  Which function below represents that total miles that Sam runs?

(a) $f(x) = 5x + 2$

(b) $f(x) = 5x - 2$

(c) $f(x) = 2x - 5$

(d) $f(x) = 2x + 5$

> *** Tips for Success ***
>
> Circle and underline important words.  Look for the slope by looking for those important key words we have above.  WRITE DOWN the m & b!!
>
> m = _____        b = _____

2)  Tim earns $7 an hour working at McDonald's.  He also was given a signing bonus when he started of $25.  Which equation below represents Tim's money.

a)  $f(x) = 25x - 7$        b)  $f(x) = 25x + 7$        c)  $f(x) = 7x + 25$        d)  $f(x) = 7x - 25$

3)  The table below represents the cost of renting a movie for $x$ amount of days.  Chose which equation matches the table.

| Days Rented, $x$ | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Cost to Rent, $y$ | 12 | 15 | 18 | 21 | 24 |

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a) $y = 0x + 12$        b)  $y = 12x + 0$        c) $y = 3x + 0$        d)  $y = 3x + 12$

4) The table below shows the cost of mailing a letter based on the weight

| Ounces of the Package, $x$ | 10 | 20 | 30 | 40 | 50 |
|---|---|---|---|---|---|
| Cost to Mail it, $y$ | $1.00 | $1.25 | $1.50 | $2.00 | $2.00 |

a) Write the equation for the table:

5) Jane works as a waitress at the local Diner. Jane is paid a flat rate of $15 on the days she works. In addition to her flate rate, she also earns $4 per hour in tips. Write an equation that represents the amount of money ($y$) that Jane makes, for working $x$ hours.

6) Joey goes to the amusement to ride as many rides as he can. Each ride costs $2. In addition to paying for each ride, Joey must also pay admission into the park, which costs $8. Which equation below represents the amount of money Joey will spend to ride $x$ rides?

a) $f(x) = 2x - 8$        b) $f(x) = 2x + 8$        c) $f(x) = 8x - 2$        d) $f(x) = 8x + 2$

7) Fun Times Music is offering a big promotional sale. The store is selling a grocery bag for $25 – but once you have the bag, any CD that you put into the bag will only cost your $2 more. What a deal! Which equation below represents the cost of buying $x$ CD's?

a) $f(x) = 25x - 2$        b) $f(x) = 25x + 2$        c) $f(x) = 2x$