

Ms. Frost

RSCS

Name: _____

Class: _____

Date: _____

$y=mx+b$ word problems homework

- 1) For babysitting, Nicole charges a flat fee of \$3, plus \$5 per hour. Write an equation for the cost, C , after h hours of babysitting. What do you think the slope and the y-intercept represent? How much money will she make if she baby-sits 5 hours?

- 2) A plumber charges \$25 for a service call plus \$50 per hour of service. Write an equation in slope-intercept form for the cost, C , after h hours of service. What will be the total cost for 8 hours of work? 10 hours of work?

- 3) A canoe rental service charges a \$20 transportation fee and \$30 dollars an hour to rent a canoe. Write and graph an equation representing the cost

- 4) A video rental store charges a \$20 membership fee and \$2.50 for each video rented. Write and graph a linear equation ($y=mx+b$) to model this situation. If 15 videos are rented, what is the revenue? If a new member paid the store \$67.50 in the last 3 months, how many videos were rented?

- 5) Suppose that the water level of a river is 34 feet and that it is receding at a rate of 0.5 foot per day. Write an equation for the water level, L , after d days. In how many days will the water level be 26 feet?