

Proportional Relationships Worksheet #3

Name: _____

Date: _____ Hour: _____

Directions: Determine the rate of change, initial value and equation (when not given) for each linear relationship and answer the question that follows.

1. Marissa needs a plumber and has narrowed her choices down to these two companies. The job has been estimated to take 4 hours. If x is the number of hours and y is the cost in dollars, which company should Marissa use?

a. *Pat's Plumbing*

$$y = 30x + 100$$

Initial value: _____

Rate of change: _____

Cost for 4 hours _____

b. *Poopers R Us*

# of Hours	0	3	6	9
Cost in dollars	50	170	290	410

Initial value: _____

Rate of change: _____

Equation: _____

Cost for 4 hours _____

WHICH PLUMBER IS THE BETTER DEAL?

2. Hank wants to join a club that delivers delicious cuts of beef, chicken, fish & pork once a month. He and his family use about 30 pounds of meat each month. x is the number of pounds and y is the cost in dollars.

a. *Delicious Deliveries*

Delicious Deliveries charges a membership fee of \$100 for its members and \$3.50 per pound of meat

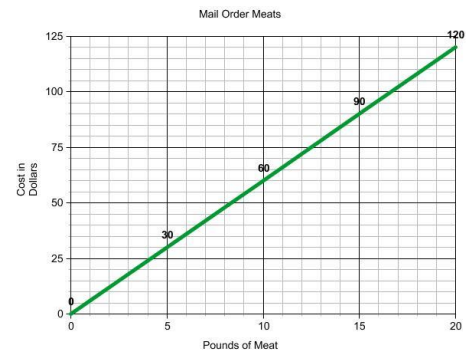
Initial value: _____

Rate of change: _____

Equation: _____

Cost for 30 pounds _____

b. *Mail Order Meats*



Initial value: _____

Rate of change: _____

Equation: _____

Cost for 30 pounds _____

WHICH COMPANY IS THE BETTER DEAL?