Name: $\qquad$
$\qquad$ Per: $\qquad$

Define initial value/ y-intercept: $\qquad$ The point Where the lire crosses the
crosses the $y$-axis
Scenario: Kerry and Frank want to save up money by putting their earnings in a piggy bank. They both come up with two different plans.
A. Kerry has $\$ 8.00$ in her bank and wants to put in $\$ 0.50$ each week.

Function Rule

$$
y=0.50 x+8
$$

B. Frank has $\$ 1.00$ in his piggy bank and wants to put in $\$ 2.00$ each week.

**Please graph both scenarios labeling the lines as A and B before you answer the following questions.

1. Who has more money in their bank at week 1 ?

Kerr
2. Who has more money in their bank at week 10 ?
3. What affects where each line starts at week 0 ?

The money they initially had in their bank affects where the live starts.
4. Which plan would you provide you with the most money?
kerry between week $0-4$
rank at week 5 and after

## Warm Up

Using the graph of a linear function below, create a table and the rule.



$$
\text { Rule: } \quad y=-3 x+7
$$

$$
\mathrm{m}=-3
$$

$$
b=7
$$

Fold on the line
Glue This Side Into Notes

