## MFM 1PI Partial Variation

Last class we talked about being paid an hourly rate at a part time job. Some jobs pay an hourly rate plus a fixed. This is an example of Partial Variation.

Partial Variation:

Examples:

Ex. 1) Michael works as a salesman in an electronics store. For each month his fixed earnings are $\$ 2000$, this part never changes. His variable earnings(the part that changes) are $15 \%$ of all his sales or
$\qquad$ . This amount changes from month to month.

An equation that represents his earning would be: $\qquad$

## Using a Graph to show Partial Variation:

Ex.2) A taxi cab driver charges $\$ 2.50$ plus $\$ 0.50 \backslash \mathrm{~km}$ for each trip.
a) set up a table of values and graph this relation.

b) Use the graph to determine the cost for a 6 km trip.
c) use the graph to predict how far you would travel for $\$ 8.00$.
d) Write an equation to model this partial variation.

Ex. 3) Jose is a professional baseball player. His contract states that he will be paid $\$ 3$ million per season plus $\$ 100000$ for every win he earns.
a) The fixed part is $\qquad$
b) The variable part is: $\qquad$
c) Write an equation that relates Jose's earnings, $E$, to his number of wins, w.
d)Use the equation to predict Jose's earnings if he wins 10 games in one season

## Practice: page 213 \#1, 2, 5, 8

> Quiz Next Day

