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 <u>Partial Variation</u>.

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Examples:

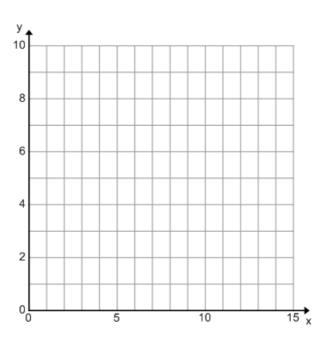
Ex. 1) Michael works as a salesman in an electronics store. For each month his fixed earnings are \$2000, this part never changes. His variable earnings (the part that changes) are 15% of all his sales or ______. This amount changes from month to month.

An equation that represents his earning would be:

Using a Graph to show Partial Variation:

Ex.2) A taxi cab driver charges \$2.50 plus \$0.50\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 6km 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 \$100 000 for every win he earns.
- a) The fixed part is _____
- b) The variable part is:_____
- 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