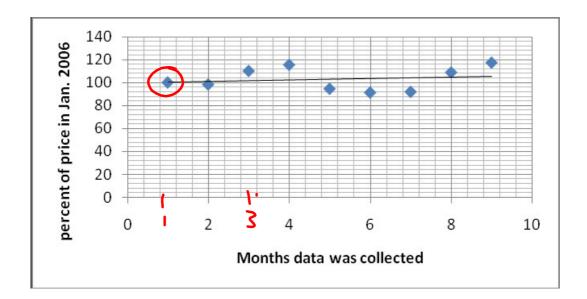
Gasoline Prices (cents/L)			% of Jan. 06	
2006	Jan	95	25 × × × × × × × × × × × × × × × × × × ×	
	March	93.3	933/95 ×105=	98.2
	May	104.6	104.6/×100= 110	0.1
	July	109.7	115	
	Sep.	89/7	94.4	
	Nov.	86.5	91	
2007	Jan.	87.1	91.6	
	March	10 <mark>2.4</mark>	107.7	
	May	111.5	117.3	

In the third column of the chart express the price a percent of the price in Jan. 2006.

If you graph the data comparing the prices to 2006 it looks like this.



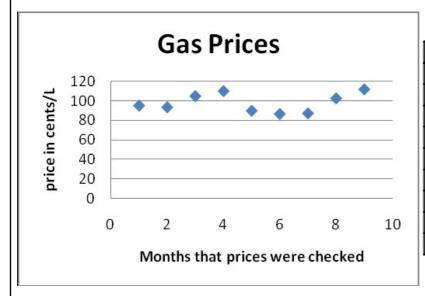
This is Price index. A <u>frice Index</u> describes the price of an item compared to a <u>base value</u>

measured at a particular time or in a particular place. Price indices help people predict <u>frends</u> in prices.

The Consumer Price Index is a very important index by stat Canada. It compares goods and service prices to a particular time to see what is happening to prices in general over time. (Up or Down and by how much?)

UNDERSTANDING INDICES

The graph below was created using the data from the table provided.



Gasolii	ne Prices	% of Jan. 06	
2006	Jan	95	
	March	93.3	
	May	104.6	
	July	109.7	
	Sep.	89.7	
	Nov.	86.5	
2007	Jan.	87.1	
	March	102.4	
	May	111.5	

Example 1

Use the CPI below to answer each question.



- a) What is the base price for the CPI? 2002
- b) In what year was the cost of the basket of goods about 90% of the base cost? 1997
- c) What was the CPI in 1990? What does this mean? 79
 The price of goods in 1990 is 79%
 of the cost in 2002.
- d) Describe the change in the CPI from 1990 to 1991. What do you notice about the line segment representing this period?

There is a larger jump in prices for these two years compared to the rest.

e) Describe the overall trend in the CPI and its significance.

It is going up slowly (somewhere between 1-2% per year)

- 2. Use the graph from #1
- a) Calculate the average annual rate of inflation from 1990 to 2006. $\frac{110 29}{16} = \frac{31}{16} = 1.9\%$
- b) Use your answer to part "a" to predict the CPI from 2010. Justify your prediction.

4 x 1.9 = 7.6 110 + 7.6 = 11).6 2) What would be the CPF in 1985? 1.9 x 5 = 9.5 29 - 9.5 = 69.5



d) If the price of goods and services in 2002 is 450, what would be the price in 1990?

79% of the price in 2002

.79 × 450
\$755.50

Use an Index to Compare Cities
The 2006 UBS Prices and Earnings
report includes a comparison of
clothing prices in 71 cities. The
base price is the price in New York.

a) Which cities in this table have index values less than 100? What does that mean?

Dublin, Toronto, H.K, Delhi Rome. Clothes in these cities are cheeper than My

City	Clothing Price Index	
	(New York = 100)	
Zurich	115.6	
Oslo	114.4	
Dublin	97.5	
New York	100	
Toronto	73.8	
Tokyo	148.1	
Rome	87.5	
Hong Kong	75	
Delhi	43.8	

b) How do clothing prices in Zurich and Hong Kong compare to

clothing prices in New York?

clothes in H.K. are 25% less than N.Y

NOTE: There are other types of Indices that use a formula instead of a base number to describe something about a place or person which then allows them to compare the data.

$$P.237$$

$$H_{1,2ac,3ac,5,6,9,10,11}$$

$$H_{2a}) 186$$

$$\frac{186-124}{124} = \frac{62}{124} = 50\%$$