

# Statistical Measures

**Per Capita** - Means for each \_\_\_\_\_

- In statistics, it is the average per \_\_\_\_\_

- Calculated as:

**Percent Change** - Measures a change in value over time

- Calculated as:

Year	Profit (\$)
2005	186,000
2006	364,000
2007	728,000
2008	212,000
2009	-22,000

<b>Student</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<b>Grade</b>	52	39	70	68	50	83	83	86	76	90	61	87	74	80	87	35	56	69	51

**Percentile** - A number between \_\_\_\_ and \_\_\_\_ indicating the \_\_\_\_\_ of the population with a score \_\_\_\_\_ than or \_\_\_\_\_ to a specific value.

- Calculated as:

**Percentile Rank** - The \_\_\_\_\_ of the population with a score \_\_\_\_\_ than a specific score.

- Calculated as:

**Weighted Mean** - A \_\_\_\_\_ in which each \_\_\_\_\_ has a different  
\_\_\_\_\_.

- To calculate a weighted mean, \_\_\_\_\_ each value by its  
\_\_\_\_\_ factor, then \_\_\_\_\_ by the  
\_\_\_\_\_ of the factors.

In MPM1D, your term mark is worth 70%, EQAO is worth 10%, your culminating is worth 5% and your exam is worth 15%.

A grade 9 gets 223/280 for their term mark, 76/90 on EQAO, 122/130 on their culminating and 112/140 on their exam.

What is their final mark?