

Find the indicated decile. Fill – up the Math – Breaker Map as guide in coming up with conclusion.

Mrs. Marasigan is a veterinarian. One morning she asked her secretary to record the service time for of 15 customers. Calculate the 3<sup>rd</sup> decile of the following are service times in minutes.

25	35	55	28	46	32	26	56	54	27	37	60	47	52	17
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**Solution:**

**Total Number of Elements**

**N =**

**Arrange the data in ascending order.**

1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>	13 <sup>th</sup>	14 <sup>th</sup>	15 <sup>th</sup>

**Locate the position of the score in the distribution.**

$$D = \frac{(N+1)}{10} = \frac{(\quad)}{10}$$

**D =**      **th**

Since the result in locating the position of the 3<sup>rd</sup> Decile is in decimal number, then we are going to apply the “Linear Interpolation”.

1.  -  =
2.  X  =
3.  +  =

**Value of D<sub>3</sub>**