







September 13, 2018



Recap of Recent GDC items













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	Marks	Frequency
	0 - 9	2
	10 - 19	31
	20 - 29	73
	30 - 39	85
	40 - 49	28
	٦	
ITRA		
	$\sum f \cdot \chi$	
χ -		
	\geq $+$	





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mict-interval		f	$f(x-\overline{x})^2$ $\sum f(x-\overline{y})^2$				
mark Xi	Marks	Frequency	$\int = \frac{2}{n}$				
4.5	0 - 9	2	Swift				
14,5	10 - 19	31	18 Harth E				
24,5	20 - 29	73					
34.5	30 - 39	85	219				
44,5	40 - 49	28	~ 14				
		219	$= \mathcal{O}_{\mathcal{O}}}}}}}}}}$				
MOOD = 29.3							
$\overline{\chi} = \frac{1}{2} \frac{f \chi}{f \chi} = \frac{164255}{219} = 29.34018 \stackrel{\text{e}}{=} 29.3 \text{ mavks}$							
			Use 29.3402 for Std. Dev.				

Now the Standard Deviation > You won't need List 3 $\sum f \cdot \times$

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A guy was walking along and saw a frog sitting on the side of the road. The frog said, "If you kiss me, I'll turn into a beautiful princess."

The guy picked up the frog, looked it over, smiled, put it into his pocket and continued on his way.

A few minutes later the frog said, "If you kiss me, I'll turn into a beautiful princess and stay with you for a week!" The guy took the frog out of his pocket, smiled, and put it back into his pocket.



Finally, the frog said, "I <u>SAID</u> that if you would just kiss me, I would turn into a beautiful princess and do **ANYTHING** you want for a whole week!

Why won't you kiss me?"

The guy said, "Look, I'm a statistician and I don't have time for girl friends, but a talking frog is kind of neat."

Example with a laptop.

find the mean and std. deviation

Number of children	Frequency
1	5
2	28
3	15
4	8
5	2
6	1
Total	59

1	Bazer, Madison R.	11	McNair, Morgan A.	21	Tort, Luis E.
2	Cervantes-Frank, Valentina D.	12	Melconian, Alexandra M.	22	Ulm, Sophie E.
3	Conaghan, Whitney A.	13	Nashawi, Lynn	23	Vasquez, Isaac R.
4	Duhaime, Hope	14	Pelavo Miriam F.	24	Villada-Youel, Stella M.
5	Gittins Benjamin T	45	Polayo, Minian 2.	25	Wagner, Ethan P.
~		15	Roome, Calvin S.	26	Wagner, Tristan A.
б	Kennedy, John B. III	16	Sain, Margaret M.	27	Warner, Liam G.
7	Kinner, Nicole A.	17	Saunders, Morgan C.	20	Wood Jacob
8	Leach, Camille N.	18	Survanata, Natania	20	wood, 3acob
9	Lugo, Isaiah P.	10	Thomas Margan A	29	Yeh, Nathan H.
0	McKapzie, Calab I	19	Thomas, Morgan A.		
	Michelizie, Galeb J.	20	Todahl, Andrew C.		





What would be different if finding the standard deviation of the following ?

Number of vehicles	Frequency
1 - 5	4
6 - 10	16
11 - 15	22
16 - 20	28
21 - 25	14
26 - 30	9
31 - 35	5
36 - 40	2



Worksheet for Day 2 of Standard Deviation

& Graph paper expected on the cumulative frequency graph





















