

\bar{X} X bar mean of sample
 μ mu mean of pop
 S Sample Stand. deviation
 σ pop S.D.
 Σ Sigma Sum
 f
 n size sample
 N size pop.

Sep 29-7:51 AM

~~5~~ 5 7 8 | 10 ~~15~~ ~~20~~ ~~27~~ 30
 $n = \frac{10}{2} = 5 + 6 \#$

Sep 29-7:55 AM

1 3 4 5 8 10 12 20 30

Sep 29-7:57 AM

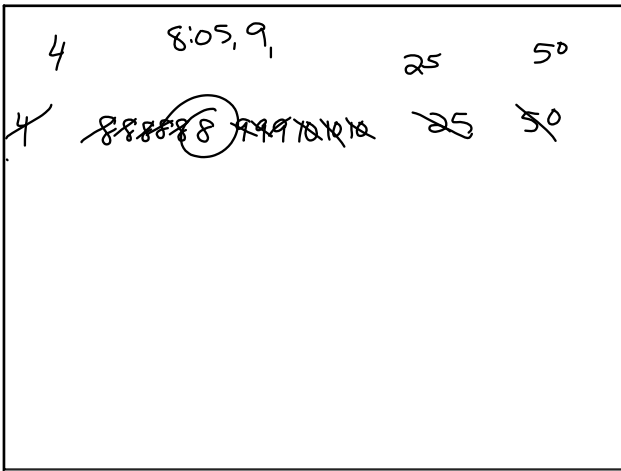
$\frac{200}{2} = \frac{100^{th} + 101^{st}}{2}$
 1056 1078

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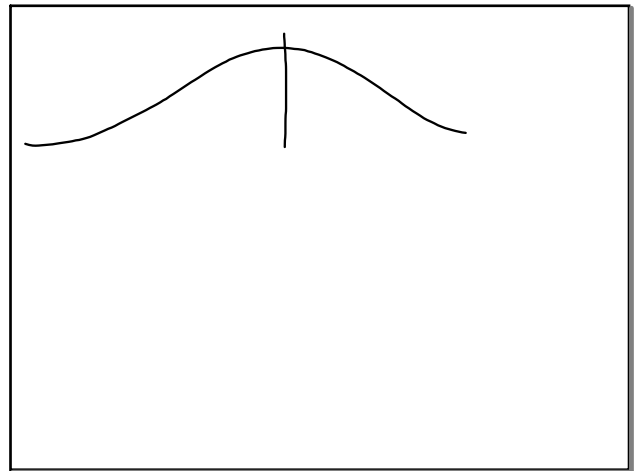
MODE

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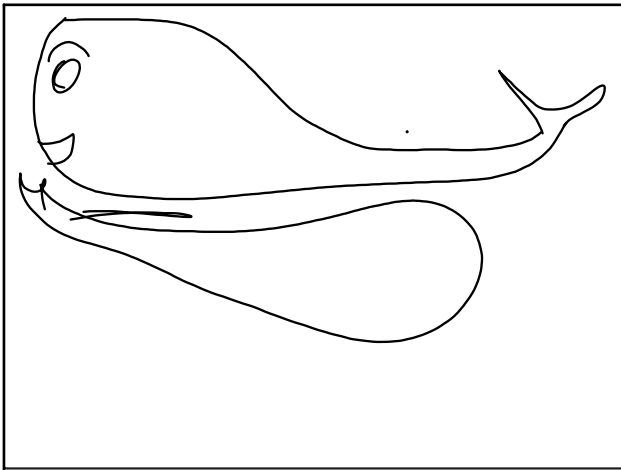
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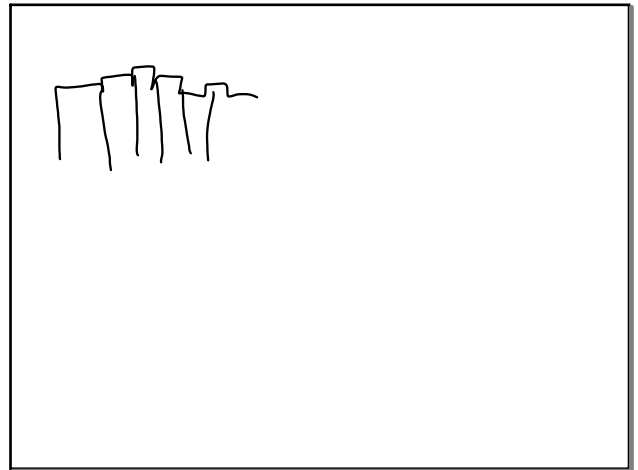
Sep 29-11:09 AM



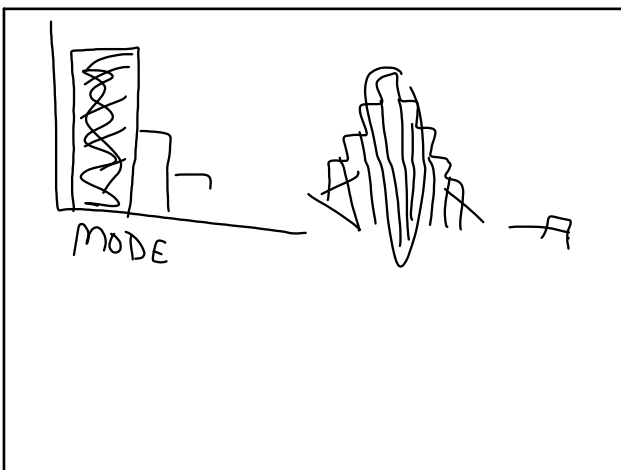
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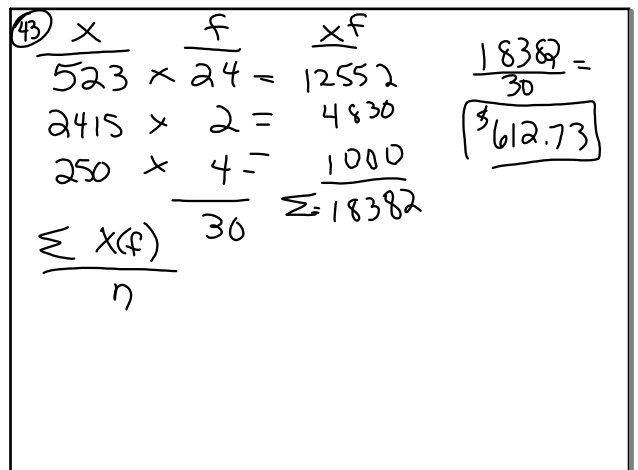
Sep 29-11:11 AM



Sep 29-11:12 AM



Sep 29-11:14 AM



Sep 29-11:16 AM

$A = 4 \times 4 = 16$
 $B = 3 \times 3 = 9$
 $C = 2 \times 3 = 6$
 $D = 1 \times 2 = 2$
 $n = 15$

$\frac{42}{15} = 2.8$

Sep 29-11:19 AM

A	4	4×4	16
B	3	$3 + 3$	18
C	2	3	6
D	1	2	2
ΣXf			42
n			15 credits
			$= 2.8$

Sep 29-8:01 AM

$\frac{f}{n} \times \bar{x} = \frac{f(x)}{n}$
 9 \times 85 = 765
 5 \times 90 = 450
 13 \times 81 = 1053
 $\Sigma \frac{f(x)}{n} = \frac{2268}{27} = 84$

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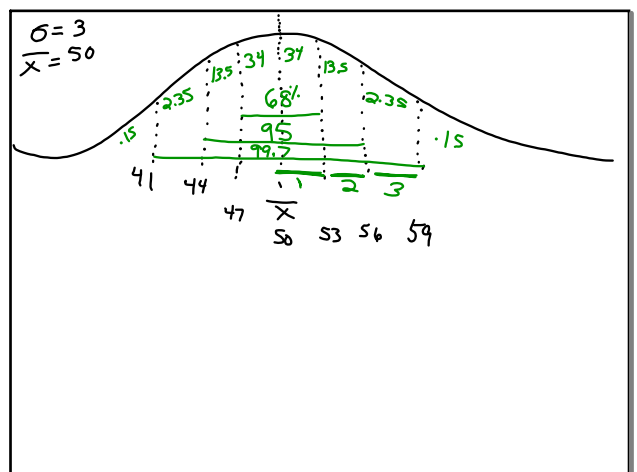
Classes	MP	f	MP(f)
29-33	31	11	341
34-38	36	12	432
39-43	41	2	82
44-48	46	2	230
$\Sigma (mp)(f)$			1085
n			30
			$= 36.2$

$x = 36.2$ miles per gallon

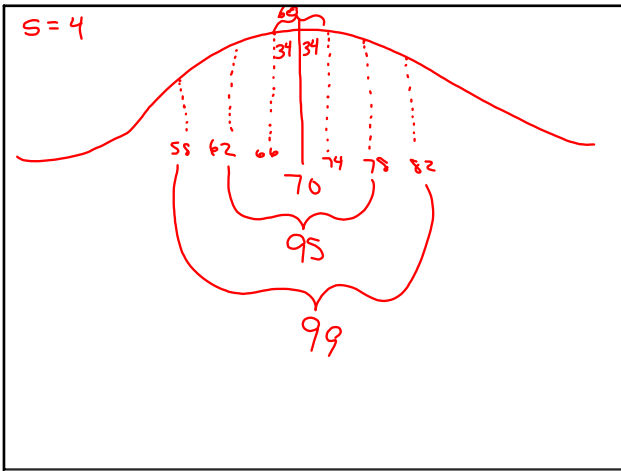
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Class	f	x	mf
0-9	49	4.5	198
10-19	66	14.5	957
20-29	32	24.5	784
30-39	53	34.5	1828.5
40-49	35	44.5	1557.5
50-59	31	54.5	1689.5
60-69	23	64.5	1483.5
70-79	13	74.5	968.5
80-89	2	84.5	169
Σmf			9635.5
n			299
$\frac{\Sigma Xf}{n}$			32.2

Sep 29-8:13 AM



Sep 29-11:35 AM



Sep 29-8:28 AM

n Sample size
 $n-1$ degrees of freedom

Sep 29-11:41 AM

mean $\frac{660}{10} = 66$ $n = 10$
 Deviation
 $x - \bar{x}$

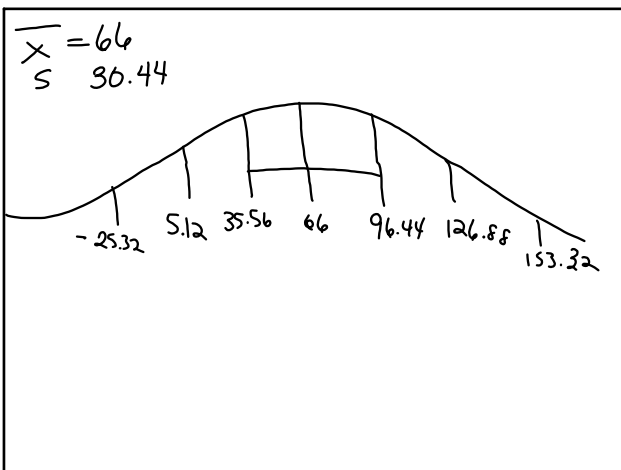
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$\bar{x} = \frac{660}{10} = 66$ $n = 10$ Deviation $x - \bar{x}$

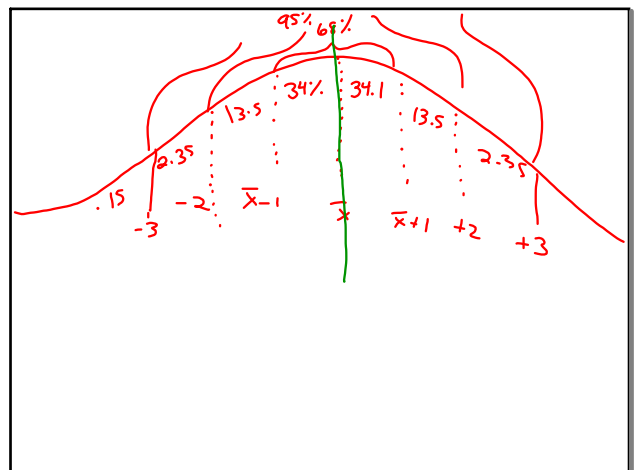
Test scores	$(x - \bar{x})$	$(x - \bar{x})^2$
22	22 - 66 = -44	1936
99	99 - 66 = 33	1089
102	102 - 66 = 36	1296
33	33 - 66 = -33	1089
57	57 - 66 = -9	81
75	75 - 66 = 9	81
100	100 - 66 = 34	1156
81	81 - 66 = 15	225
62	62 - 66 = -4	16
29	29 - 66 = -37	1369

$\sum (x - \bar{x})^2 = 8338$
 Variance = $\frac{\sum (x - \bar{x})^2}{n - 1} = \frac{8338}{9} = 926.4$
 $S = \sqrt{\text{Variance}}$
 $S = \sqrt{\frac{\sum (x - \bar{x})^2}{n - 1}} = \sqrt{926.4} = 30.44$

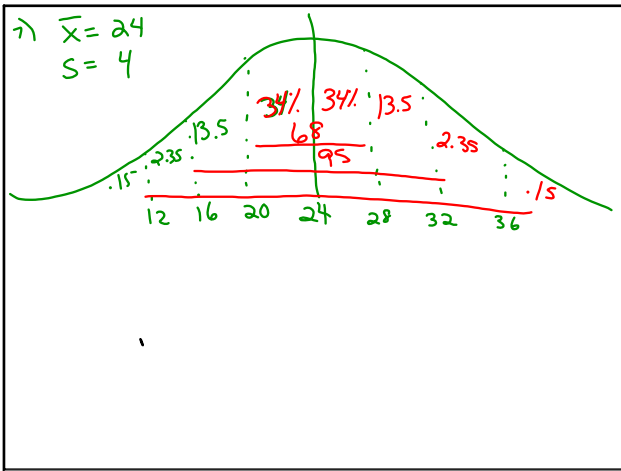
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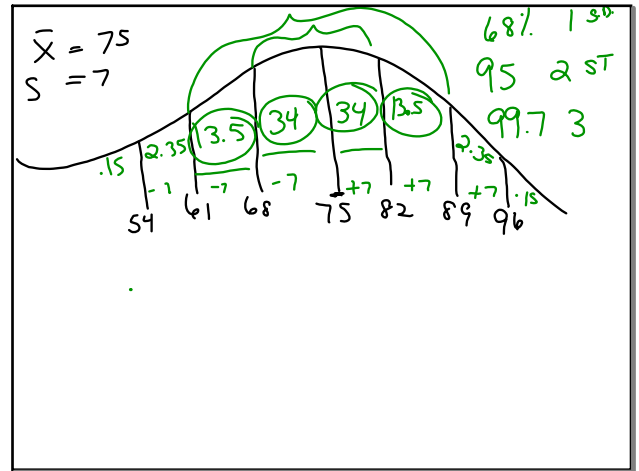
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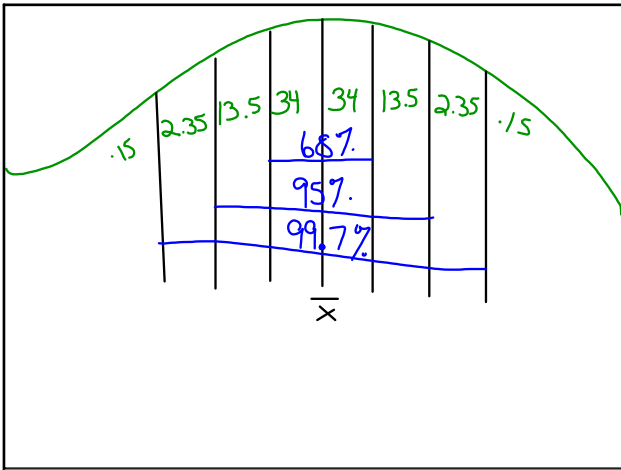
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Sep 29-9:01 AM



Sep 29-11:56 AM



Sep 29-12:03 PM