

Feb 19-8:47 AM

Basic Math Review
SGI
) Simplify
$$\frac{75}{120}$$

 $\frac{75}{120} = \frac{5.45}{3.40} = \frac{5}{8}$
a) Write 2.5% in decimal & Reduced Inaction
 $2.5\% = 2.5(.01) = (.025)$
 $2.5\% = \frac{2.5}{100}$
TI-83 or TI-84
 $2.5 \div 100$ [Math] 1: Phase Enter $\frac{4}{70}$
s) Write 12300000 in Scientific notation
 1.23×10^{7}
 1.23×10^{7}
 $3) 1.23 \times 10^{7}$

4) Write
$$6.5 \times 10^{-4}$$
 in Standard notation.
S.N.
02026.5
4) 0.00065
optimal
5) 6% of 150 Students had a job.
How many of them had a job?
what is 6% of 150?
 $\chi = .06(150)$ $\chi=9$

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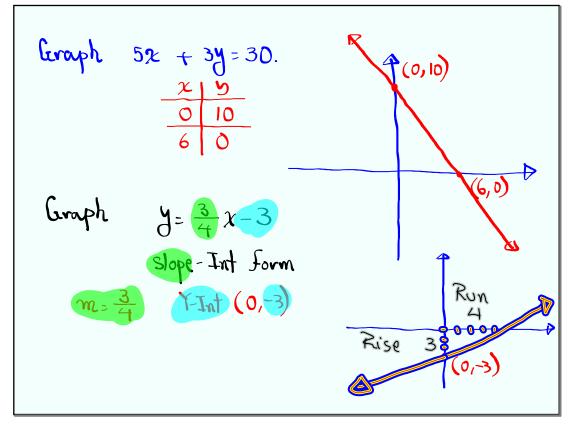
Given
$$[2, 3, 5, 5, 10] \rightarrow 5$$
 numbers $\rightarrow n=5$
 $2x = 2 + 3 + 5 + 5 + 10 = 25$
Summation of x
 $2x = 2^{2} + 3^{2} + 5^{2} + 5^{2} + 10^{2} = 163$
 $5x = 2^{2} + 3^{2} + 5^{2} + 5^{2} + 10^{2} = 163$
 $5x = 2^{2} + 3^{2} - (5x)^{2} = \frac{5 \cdot (63 - 25^{2})}{5(5-1)}$
 $= \frac{190}{20} = 9.5$

8) Simplify
a)
$$\frac{32 - 26}{\frac{16}{\sqrt{25}}} = \frac{6}{\frac{16}{5}} = \frac{6}{3.2}$$

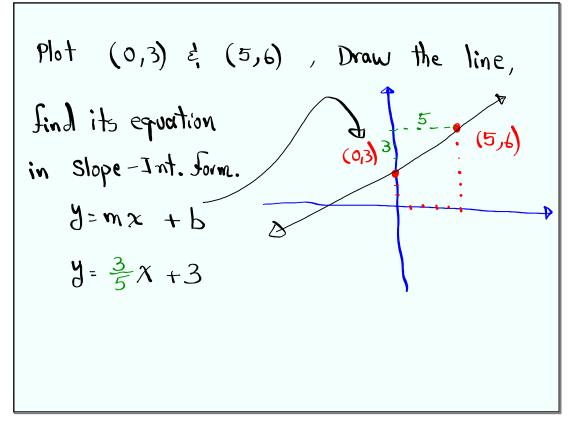
b) $1.96 \cdot \sqrt{\frac{(.4)(.6)}{24}}$
 $= 1.96 \cdot \sqrt{.01} = .196$
b) $1.96 \cdot \sqrt{.01} = .196$

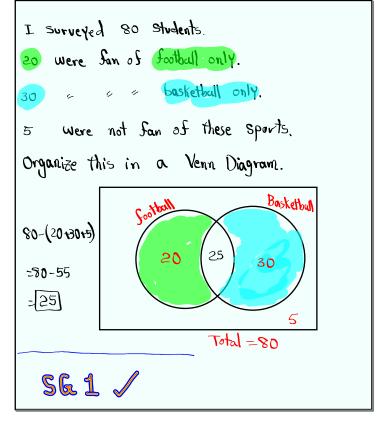
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(S(2))what is statistics? It is the Science of study data. (Information) we collect data, we organize them, we graph them, we do certain Computations, and we draw conclusion with Some level of Confidence. and make predictions, Two Branches: 1) Descriptive : collect data, organize, graph, Compute - -2) In ferential : To draw conclusion from Descriptive Statistics.

Sample VS Population Population : Entire field of interest Sample : randomly Selected from Population sample Population Sample Population <--- Parameter Sample A P Statistic Average income of <u>all</u> students is \$2000/m0 Para meter Average exam Scores of 15 randomly selected Students is 88. statistic

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GIPoly Pomona fresh. (100) Soph. (150) Stratified Jr. (75) Sr. (50) Conducte Students (25) Mt. SAC offers 400 Sections of classes during Winter 2025. Cluster Select 50 Sections, then ask all students in these selected Sections to do Student Survey.

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Observation VS Experiment Observe outcome Observe changes/outcome without taking after taking actions. any action. SG 2 🗸

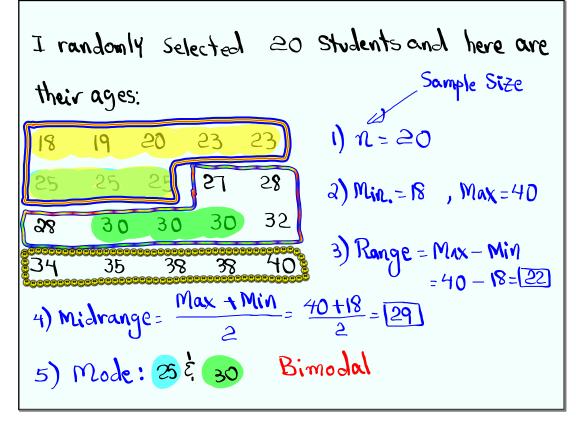
A data Set has a min. = 15 and max.=65
Compute
1) Max - Min
= 65 - 15 = 50
3)
$$\frac{Max - Min}{4} = \frac{50}{4} = [2.5]$$

4) $\frac{(Max - Min)^2}{12} = \frac{50^2}{12}$
5) $\left(\frac{Max - Min}{4}\right)^2 = (\frac{50}{4})^2 = 12.5 = [156.25]$

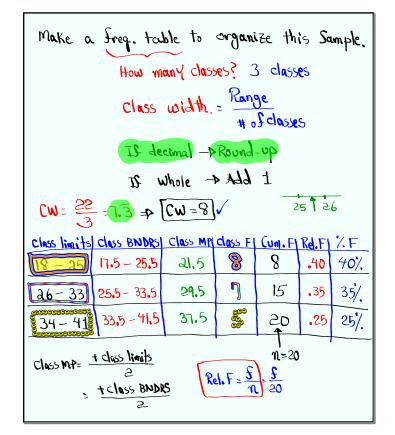
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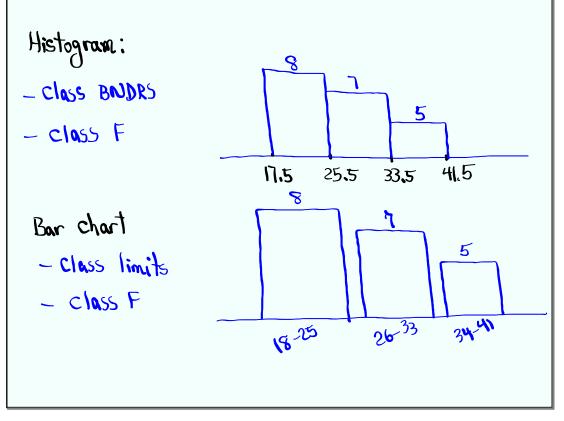
I randomly selected 5 quizzes. Here are (SG3)
the Score 2,8,10,10,10,16.
1) Sample Size
$$n=5$$

a) Min. = 2, Max. = 16
3) Range = Max - Min = 16 - 2 = 14
4) Midrange = $\frac{Max + Min}{2} = \frac{16 + 2}{2} = 9$
Possible Calc. error
16 + 2 + 2 = 17 ×
(16 + 2) + 2 = 9 v
5) Mode 10

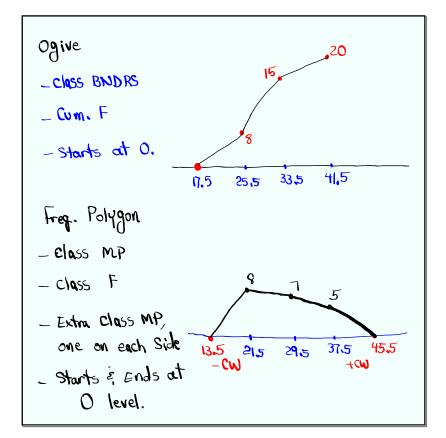


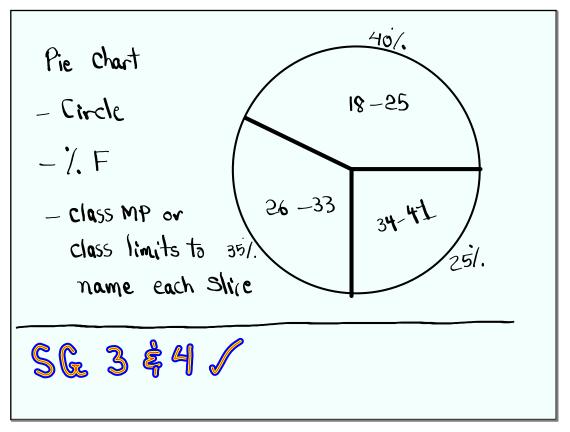
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