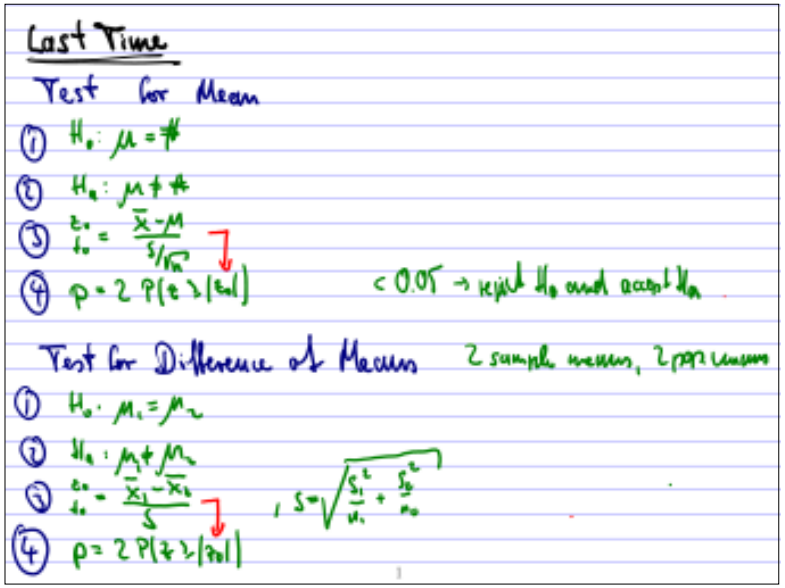
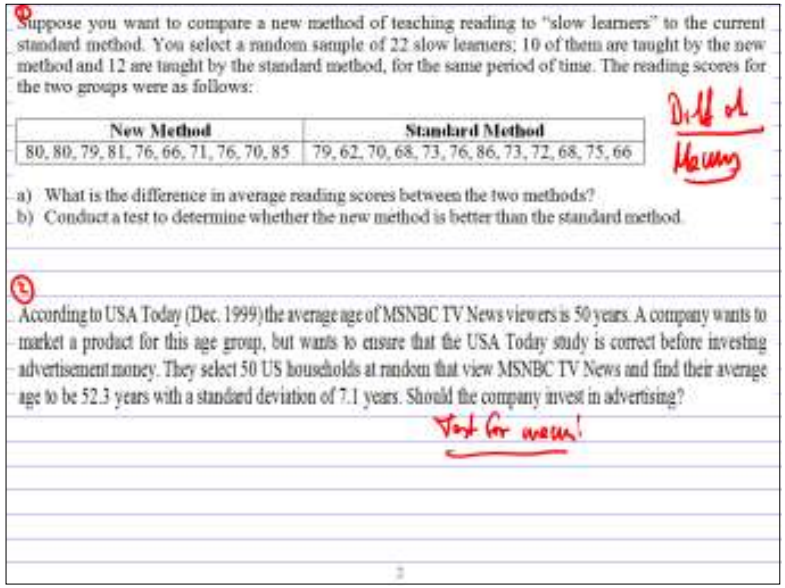
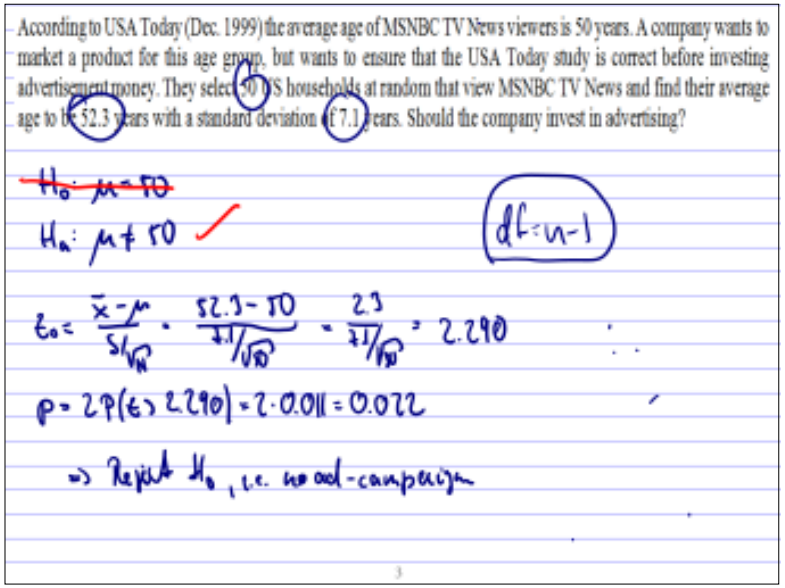
Panel 1



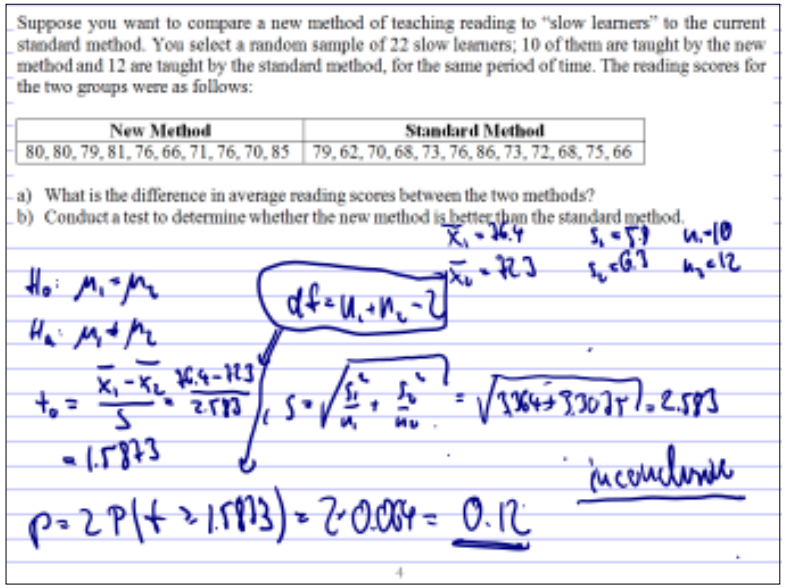
Panel 2



Panel 3



Panel 4



Panel 5

Name: _____

Quiz #9

① The average weight of a box of chocolate is 250 gr. You suspect that this is incorrect so you weigh a sample of 100 boxes to find that $\bar{x} = 235$ with $s = 6$. Is the claimed weight correct?

H_0:

H_a:

$t_0 = -\square$ ← drop any neg. sign

$p = 2 \cdot P(t > +\square) = 0$

5

Panel 6

② To test a new blood pressure medication, one group of patients receives the new drug, the other gets a placebo. Their blood pressure is measured as follows:

Group A: 90, 90, 89, 92, 86 (with medication)

Group B: 110, 115, 97, 107, 120 (with placebo)

Is there a significant difference between the groups?

H_0:

H_a:

$t_0 =$

$p =$

6

Panel 7

Dividing a Sample into Two Groups:

Example: The shared data set "ComputerAssign2-normtemp" shows temperature, sex, and heartbeat of subjects. Check whether there is a significant difference in heartbeat between men and women.

Stats → 2-Stats → 2 Samples → with Data

7

Panel 8

Proportion

One experiment with 2 outcomes.

Denote $P(S) =$

→ $P(F) =$

Mendel

H_0:

H_a:

$t_0 =$

$p = 2P\left(\frac{t}{t} \geq \frac{|z_0|}{|t_0|}\right)$

8