

SELF-TEST

1. Properties of the sampling distribution of the mean differences:
 - a. Its mean is equal to 0.
 - b. The larger the sample sizes, the more closely the distribution approximates the normal curve.
 - c. The larger the sample sizes, the smaller the standard error of the mean differences.
2. A t test for independent samples is used when data are gathered from unrelated (independent) groups, such as when a control group is compared to a separate experimental group.
3. A t test for dependent samples is used when data are gathered from the same, related, or matched samples on two occasions (repeated measures), such as when participants are pretested, receive a treatment, and then are posttested.
4. e (a and b are correct)
5. $t(22) = 0.79, p > .05$. Leadership style did not significantly influence worker productivity.
6. $t(9) = -3.79, p < .01$. The course significantly improved reading speed.