Types of Statistical Tests

Math Academy 1 Worksheet 8-D

1. State the type of statistical test that would be appropriate for the following research questions. a) Do more people prefer skiing or snowboarding?
b) Do people commute more the higher their salary is?
c) Are gas prices cheaper in rural areas or in urban areas?
d) Can adults go longer than children without blinking their eyes?
e) Do high school graduates earn more than high school dropouts?
f) Are women more likely than men to prefer skiing over snowboarding?
g) Are heartrates different when people wake up than when they go to bed?
h) Do different grocery stores have different average wait times at checkout? i) Is there a relationship between season of birth and field of study in college?
j) Is the number of addition problems people can do in a minute more variable if people are watching?
2. Make up an alternate hypothesis for each of the following types of test.
a) ANOVA
b) F test of two variances
c) w² tost of independence
c) χ^2 test of independence