PRACTICE FOR TAKS OBJECTIVE 9

1. The table shows the yearly percent increase in the population of Texas from 1999 through 2003. Which conclusion can you make based on the information in the table?

Year	Percent increase
1999	1.98%
2000	1.43%
2001	2.35%
2002	1.86%
2003	1.76%

A The population decreased each year from 1999 through 2003.

B The percent increase in population for 2004 is 1.56%.

C Texas had its largest increase in population in 2000.

D The percent increase in population averaged over 1.8% during the 5 years.

2. The table shows a company's salary scale for employees. Which conclusion can you make based on the information in the table?

Year of employment	Salary (thousands of dollars)
1	25
2	25.5
3	27
4	29.7
5	31.1

F The salary of an employee is not related to the length of employment.

G The salary increase is at least 4% for each year of employment.

H During their first five years of employment, employees receive their greatest pay increase after the third year.

J The salary of an employee after 6 years is at least $37,000.

3. In a survey of 100 high school students, 20 students said they get 6 hours of sleep a night. Of those students who get 6 hours of sleep, 8 are female. A school newspaper reported "In a survey of high school students, only 8% of students who get 6 hours of sleep a night are female." Which conclusion is valid based on the data given?

A The statement is accurate because female students need more than 6 hours of sleep.

B The statement is accurate because 8 out of 100 students represents 8%.

C The statement is inaccurate because it does not include the number of hours of sleep for each student surveyed.

**D** The statement is inaccurate because 8 out of 20 students represents 40%.

4. Three friends go to a restaurant and order sandwiches. The restaurant has 12 different sandwiches, and each person is equally likely to choose any sandwich. What is the approximate probability that each person orders a different sandwich?

F 0.003

G 0.064

H 0.573

J 0.764

MIXED TAKS PRACTICE

5. Which inequality does the graph represent?
TAKS Obj. 1
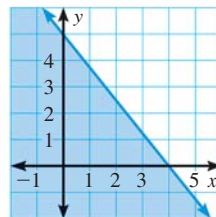
A $5x + 4y < 20$

B $5x + 4y > 20$

C $5x + 4y \leq 20$

D $5x + 4y \geq 20$