Aug 26, 2019 Name: _____

F18 BA265 Student Survey and Math Assessment

Data provided on this form will be used as sample data to illustrate statistical concepts. The data will be combined with all student data in 2 sections (~ 100 students) and no individual details or personal information will be shared. If you prefer not to answer a question for any reason, simply leave it blank.

Student Data:

Height: _____ Shoe Size: _____ Eye Color: _____ Gender: _____

How many hours per week do you work (outside of school): _____ $ Per Hour: _____

Student Debt Amount (current): _____ Car Loan (balance owed): _____

SAT Score: _____ ACT Score: _____ High School GPA: _____

Are you registered to vote? YES or NO

Describe the Car you drive:

Year: _____ Make: _____ Model: _____

Mileage/Odometer: _____ Fuel Economy (mpg): _____

Describe your Cell Phone:

Make: _____ Model: _____

Service Provider: _____ Monthly Cost ($): _____

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Math Assessment (Circle the correct answer)

The purpose of the Math Assessment is to determine the level of math proficiency among enrolled students. Please try your best to answer all questions correctly. The results will not affect your grade.

1. What is the value of x in the following equation? $15 - x = 78$
   a. -63 b. 63 c. 5.2 d. 93 e. -93

2. A $1,000 lottery winner had 35% deducted for taxes. How much was the winning check?
   a. $700 b. $350 c. $300 d. $650 e. $965

3. There were 1580 cars sold in 2004 and 1817 cars sold in 2005. What is the percent increase in cars sold in 2005 when compared to those sold in 2004?
   a. 25% b. 18% c. 32% d. 28% e. 15%

4. Which of the following choices expresses $^{11}/_{25}$ as a percent?
   a. 11% b. 36% c. 40% d. 44% e. 49%

5. The scientific notation for a particular amount is 16.2×10^{-3}. What is that amount expressed in standard form?
   a. 16.020 b. 0.0162 c. 0.000162 d. 0.0486 e. 4.860

6. A woman wants to park her 15 ft long car in a garage that's 19 ft long. How far from the front of the garage will the front of her car need to be so the car is centered in the garage?
   a. $3\ ^1/_2$ ft b. 3 ft c. $2\ ^1/_2$ ft d. 4 ft e. 2 ft

7. A charter bus' average highway speed is 65 miles per hour while a car's average highway speed is 70 miles per hour. If the bus and car both depart from the same place at the same time today, how much farther ahead of the bus is the car after eight hours?
   a. 5 miles b. 15 miles c. 22 miles d. 40 miles e. 35 miles

8. A man loans his friend $10,000 at 7% *simple* interest. The friend repays $5,035. How much money does she still owe the man?
   a. $4,965 b. $5,465 c. $4,065 d. $5,035 e. $5,665

9. Solve for y in the following equation, if $x = -\ ^1/_3$: $y = x + 3$
   a. $y = 2\ ^1/_3$ b. $y = 2\ ^2/_3$ c. $y = 2\ -^2/_3$ d. $y = 3\ ^1/_3$ e. $y = -3\ ^1/_3$

10. A hotel's Internet service costs guests $3.00 for the first hour of use and $0.15 for each five minutes over that. A woman uses the service for 3 hours and 10 minutes. What will her Internet charge be?
   a. $9.30 b. $3.90 c. $5.60 d. $7.20 e. $6.90