



AME University
2nd semester, 2018-19
EDUC 309
Educational Statistics

3. Assignment

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Descriptive statistics

Answer the following questions. Round to the nearest whole number:

1. In a class of 42 students, 38% are boys. How many boys are in the class? How many girls are there?
2. The 24 girls make up 40% of the class. How many students are in the class?
3. The recently started ECDE class had 14 students last year. This year, enrolment numbers grew by 50%. How many students are enrolled this year?
4. In 2016, a class had 32 students. Then enrolment dropped by 25% in 2017, and in 2018 it grew by 25% again. How many students were in the class in 2018? Explain your answer in detail.
5. A school is attended by 780 students, out of which 453 are girls. What is the percentage of boys?
6. Last year's tuition was 14,800 L\$ per semester. This year, the school administration decided to increase it by 15%. What is this year's tuition per year?

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7. Convert these percentages into decimals: a) 26%, b) 45%, c) 78%, d) 20%, e) 70%, f) 10%, g) 100%, h) 1,000%, i) 1%, j) 1.1%, k) 4.8%, l) 95.5%, m) 110%, n) 101%, o) 100.1%.
8. Find two story questions that require calculation of percentages. Demonstrate the solution to your own questions.
9. In table 1 below, you find the total number of primary school teachers and the total number of male primary school teachers for each county in Liberia in 2014. Compare the numbers by calculating the percentages of male teachers. Which county has the highest rate of females?
10. Relating to table 1: What would make more sense - to either present the total numbers for both genders, or to present the percentages? Why?

County	Total	Male
Bomi	507	451
Gbarpolu	390	366
Grand Bassa	1,085	946
Grand Gedeh	723	608
Grand Kru	514	485
Lofa	1,736	1,605
Margibi	1,507	1,213
Maryland	808	664
Montserrado	6,875	5,276
Nimba	3,129	2,621
River Cess	420	399
River Gee	462	424
Sinoe	765	688

Table 1: Number of primary school teachers by gender and county, 2014

Submit your assignment either on paper at the beginning of the next class or send it to the course email before the next class.