GR11 ESSENTIAL

UNIT D – STATISTICS

MISREPRESENTING GRAPHS

MrF

Name: _____

Date: _____

State what is wrong and deceptive about these graphs?! (See unit notes if necessary). Just explain in a coherent sentence or paragraph what it is that is deceptive about the presentation of the data.

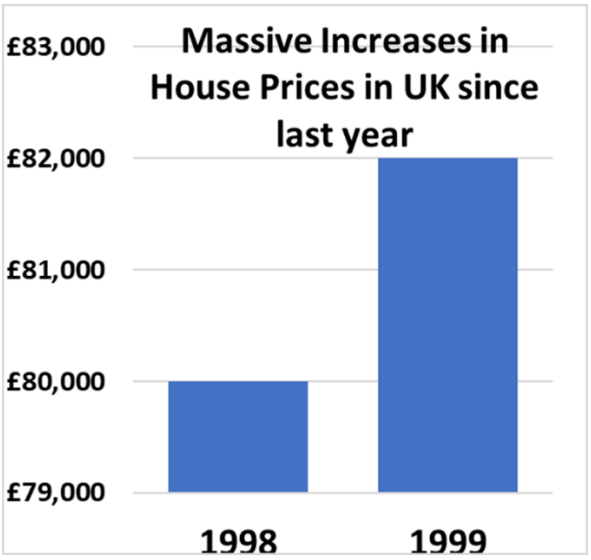
1. The headline in the paper reads:

   'Massive Increase in Price of houses in UK!'

   The articles says :

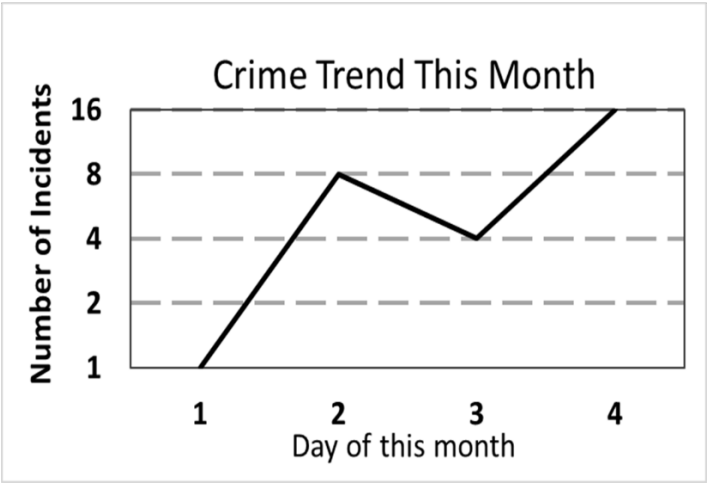
   'The graph shows they tripled in one year!.....'

   Explain. The main problem with this graph is:

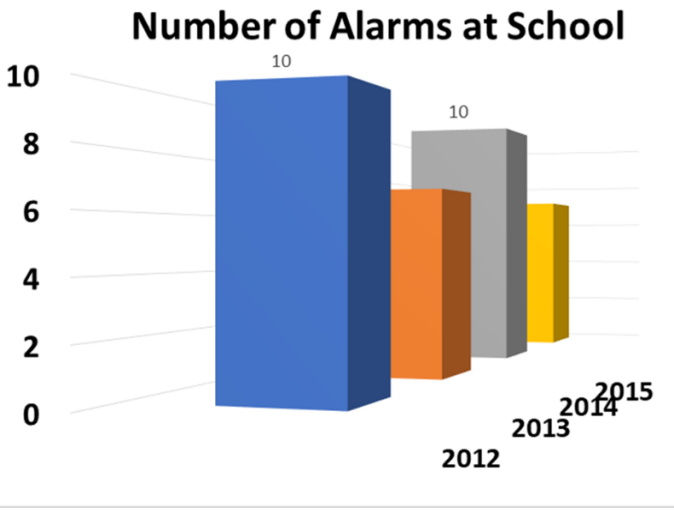


* The '**£**' is English Pounds*

2. Explain what is wrong with information presented on this graph showing the crime trend the first few days of the month!



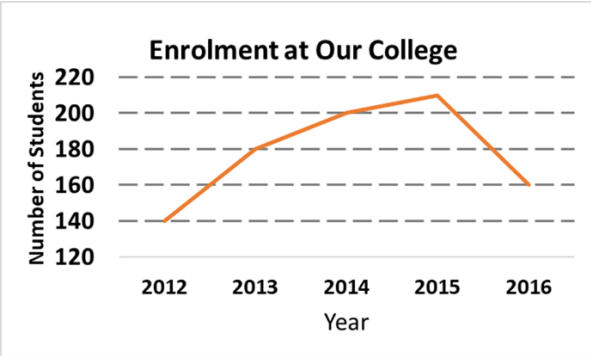
3. Explain how this 3D Bar Graph is misleading to explain how the number of alarms is trending lower.

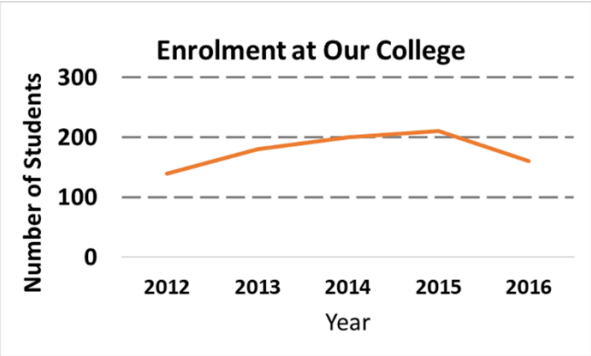


4. The number of enrolments for a college for the years 2012 to 2016 is given in the following table:

Year	2012	2013	2014	2015	2016
# of Enrolees	140	180	200	210	160

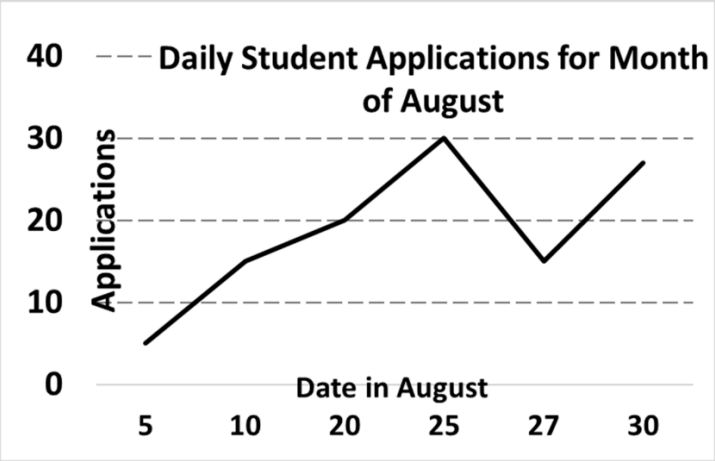
Two possible graphs of the data are available to present to the Education Council to try to convince them that that enrollment rate is pretty flat and consistent throughout the last few years



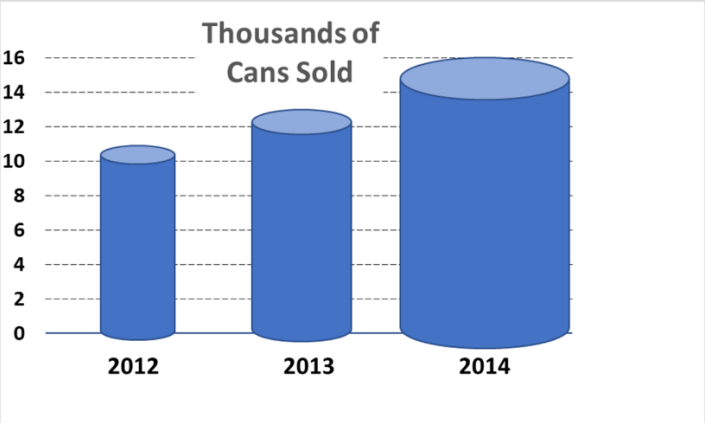


Explain which graph (left or right) is the most convincing that the enrollment rate is fairly steady and consistent with only slight changes and why that graph might be selected to convince the council that enrollment is fairly steady.

5. Explain what is wrong with this graph.



6. Doug of '**Doug's Dog Foods**' is trying to convince his investors that his sales are really exploding. Explain what might be misleading on this graph.



Data

Year	2012	2013	2014
Cans Sold	10,000	12,000	15,000