Big Idea 3

Learning Activity 6

Questions:

1. List the manufactures in order of the mean sugar levels in their breakfast cereal products.
2. Use the mean sugar levels to group the manufactures into two groups. What is the range of the mean sugar levels for the two groups?
3. Find the mean of the mean sugar levels in each group. Do you think the difference in the two new means calculated suggests there is a difference between the two groups of manufactures?

Answers:

1. Nestle, 28.2 g sugar/ 100g cereal
   Weight Watchers, 24.3 g sugar/ 100g cereal
   Kellog’s, 23.8 g sugar/ 100g cereal
   Uncle Toby’s, 18.5 g sugar/ 100g cereal
   Sanitarium, 17 g sugar/ 100g cereal
   Lowans, 16 g sugar/ 100g cereal
   Woolworths, 15.7 g sugar/ 100g cereal
2. The new groups would be
   • 0-20 g sugar/ 100g cereal
   • 20-30 g sugar/ 100g cereal
3. Means of the new groups are;
   • 0-20 g sugar/ 100g cereal = 16.8 g sugar/100g cereal
   • 20-30 g sugar/ 100g cereal = 25.4 g sugar/100g cereal

Yes this does suggest that there is a difference between the groups.