**Statistical**

**Investigation**

**2011**

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**What is your favourite gift between $1 and $15, are you a female or male and what is your age?**

**My Aim is to answer this question by gathering data from my class mates, displaying it in graphs and using this information usefully!**

**Sample Size Goal: 30+**

**How the data is going to be gathered: I am going to go to people in my class and ask them my question. I will record their answers in my Maths book using a Tally Chart. I will use a tally chart because it’s an easy way to display my information before making graphs.**

**Who will I ask? My class mates Room 7 and part of Room 10.**

**Prediction: I predict that most girls aged 11, 12 and 13 will pick CD. I also think that girls aged 10 will pick jewellery. Most boys aged 10 and 11 will pick rugby ball, and boys aged 12 and 13 will pick CD.**

**I think overall the most popular gift for boys will be rugby ball. The girls most popular gift I think will be either chapter book or CD.**

**Graph 1 – 3D Column Graph:**

**Graph 2 – Line Graph:**

**Results:**

**Mean for amount of people who liked each gift:**

**4 + 3 + 1 + 1 + 1 + 2 + 1 + 1 + 10 + 7 = 31 divided by 10 = 3.1**

**Median for amount of people who liked each gift:**

**1, 1, 1, 1, 1, 2, 3, 4, 7, 10 = 1.5**

**Mode for amount of people who liked each gift:**

**1, 1, 1, 1, 1, 2, 3, 4, 7, 10 = 1**

**Range for amount of people who liked each gift:**

**10 – 1 = 9**

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**Data Facts:**

* **10/31 people (both females and males) choose CD.**
* **All toys, stationery pack, chapter book, pets toy and board games were picked for only once with the mode = males.**
* **The most popular female’s gift was CD.**
* **The most popular male’s gift was a tie between rugby ball and other which would be money, soccer ball, etc.**
* **The most popular gift for 12 year olds was CD.**
* **The most popular gift for 13 year olds was other.**

**Conclusion:**

**This statistical investigation showed me that the most popular gift for females was a CD, and the most popular gift for a male would be a rugby ball. I also discovered that a high percentage of 12 year olds preferred a CD as a gift, compared to 13 year olds who prefer other which would be lipstick or clothes accessories. I found it interesting that the 11 year olds that I asked had a range of answers varying from rugby ball to chapter book. So overall I found out that the most popular gift for both boys and girls are CD’s.**

**So What?**

**The information in this investigation and the graphs that display my working would be useful for my Mum who always is confused on what to buy my cousins for Christmas. I have heard her say, “It’s hard to decide on Christmas gifts when the maximum amount of money is** $**15.” This will give my Mum some advice on what to choose for my cousins!!**

**Investigation Accomplished!! ☺**

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