QUESTION: WHAT IS YEAR 8 MATHS STUDENTS FAVOURITE FLAVOUR OF EXTRA GUM?

INTRODUCTION

Our group to research the question **"What is year 8 maths students favourite flavour of extra gum?"** a topic that the majority of year 8 maths students can relate to as most of them chew gum(Obviously not at school) This research question not only helps us to find out what our peers prefer in extra gum but, also encourages us to apply our mathematical knowledge and concepts to a engaging topic. This research task provides us with a unique opportunity to investigate data collection and analysis while putting a fun and responsive spin on the data anyalsis poster competition

HYPOTHESIS

It is hypothesised that the majority of year 8 maths students will choose mint as their favourite extra gum flavour due to its popularity and recognised benefits, such as freshness and improved concentration. We also think that it will be year 8's favourite. Year 8 is a little concerned that our data will be skewed as very few people will vote for other flavours.

RESULTS

Flavours	Frequency
Mint	27
Strawberry	23
Peppermint	15
Pineapple & coconut	9
Other	8
Original bubble	8
Total	90

METHODOLOGY

1. Our group decided to aim a interview every year 8 Maths class to get wide range and reliable data but we didn't end up being able to because we couldn't get to them in our set amount of time
2. We wanted to have a question that the whole of year 8 could answer without having to hesitate. A simple question that the majority of year 8 would find relatable.
3. We then had to think the correct way to structure our question for our research, because we were going to ask teachers as well as the students but our question didn't include teachers we interviewed the year 8 maths students, so we then decided to keep it simple and not add teachers.
4. After getting our well structured question we needed to think what type of graph we were going to utilise to display our data. We decided that a pie and column graph would be the most effective graphs display our data.
5. We then started with a tally and frequency table and used that to start interviewing our class and then the rest of the year to collect our data
6. once we had filled out our tally and frequency table we had enough data to start creating a column graph and pie graph
7. Then in having finished collecting and displaying our data we started putting together our data anaylsis poster(this).

OPTIONS FOR EXTRA GUM FLAVOURS

- Strawberry
- Pineapple-coconut
- Mint
- Peppermint
- Classic Bubble
- Other

FUN FACTS !!

- The brand Extra Gum was invented in 1984
- It took 5 years to become the most popular brand of gum
- Extra Gum makes $528 million a year
- The Wrigley Company owns Extra Gum and also owns many other gum brands
- Over the years Extra Gum has released 90 flavours of gum which is the same amount of people that we surveyed
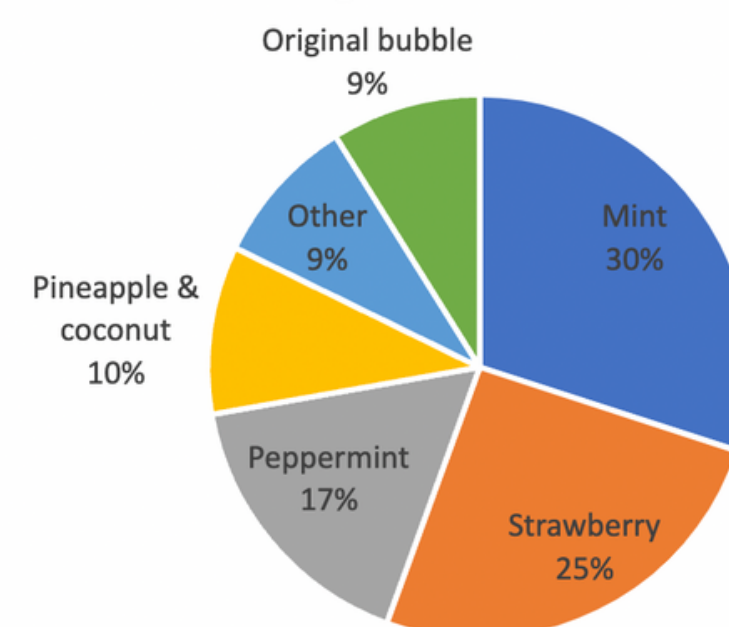
ANAYLSIS/CONCLUSION

In conclusion, the categorical, nominal data that our group has collected from the year 8 maths classes shows our mode to be mint. This verified our hypothesis, but it did not win by as much as we thought only as Strawberry was 4 points behind. One problem we faced was that we surveyed our teacher who pointed out this was incorrect as our teacher is not part of year 8 maths. We also were not able to interview everyone in year 8 maths but got enough data to make two good graphs.
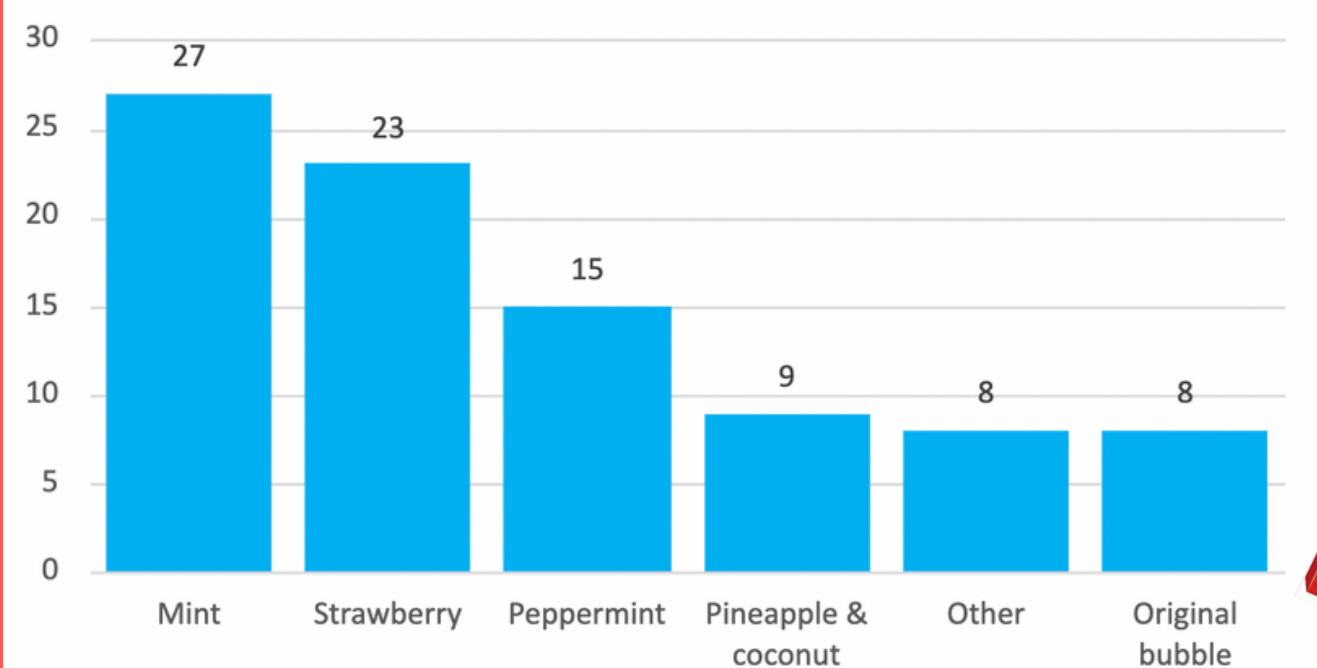
COLUMN GRAPH

Favourite extra gum flavour- Year 8 math class

PIE GRAPH

Favourite extra gum flavour- Year 8 math class
- Mint 30%
- Strawberry 25%
- Peppermint 17%
- Pineapple & coconut 10%
- Other 9%
- Original bubble 9%