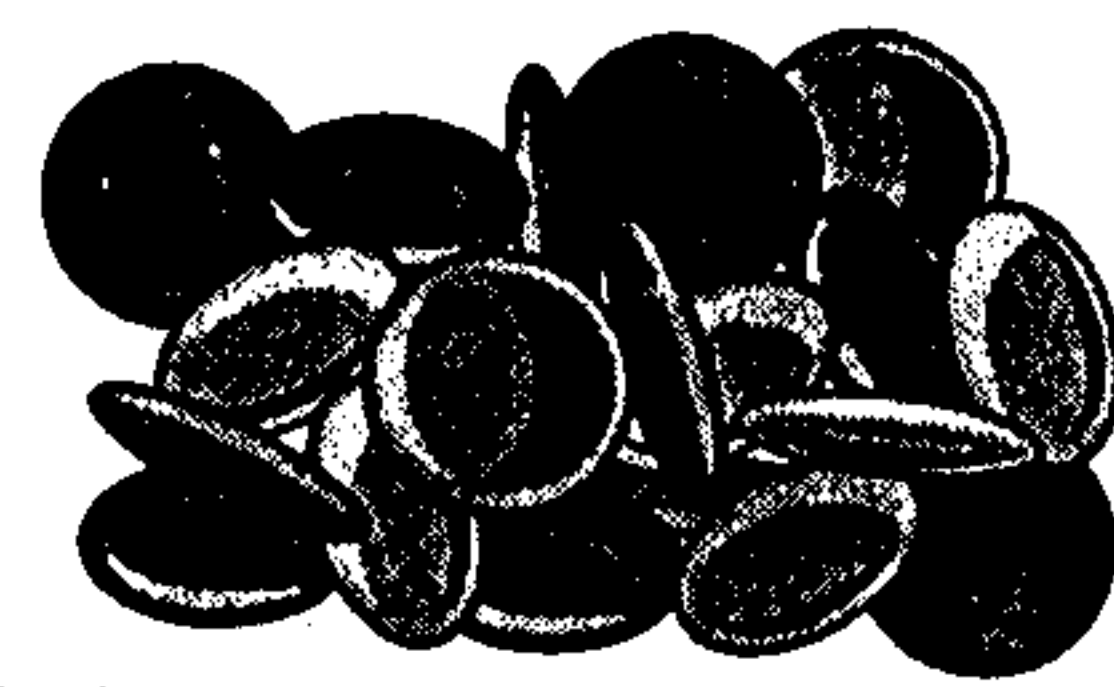




Investigation



Smarties statistics

Equipment needed: small packet of Smarties (25 g), large pack of Smarties (250 g). Smarties come in many colours, usually 8 in total.

Prediction: How many Smarties do you think there are in your small box?

Which colour will there be the most of?

1. Open your small box of Smarties. *Do not eat any!!!!*
Copy and complete the following table for your box of Smarties:

<i>Colour</i>	<i>Tally</i>	<i>Frequency</i>	<i>Percentage of total</i>
Blue			
Brown			
Green			
Orange			
Pink			
Purple			
Red			
Yellow			
Totals			

OK! Now you can eat some!!!!

2. How many Smarties were in your box?
3. What was the most popular colour?
4. Compare your results with those of other members of your group, and other members of your class. What was the most popular colour for the *whole class*?
5. You have a 25 g box of Smarties. *First*, using the data from your box of Smarties, *predict* the number of each colour in a 250 g packet. Repeat this, using the data from your group.

<i>Colour</i>	<i>Prediction 1</i>	<i>Prediction 2</i>	<i>Reality</i>
Blue			
Brown			
Green			
Orange			
Pink			
Purple			
Red			
Yellow			
Totals			

Check your predictions by opening and counting the distribution of colours in the 250 g packet.

6. *Imagine you are in charge of production*

- a. What would be your ratio of colours in a packet of 100 sweets?
- b. Compare your choices with those of 3 other groups.

7. *You are to order colouring for Red, Yellow and Blue Smarties. You must order colouring in lots of 100 bottles. How many bottles of each (R, Y, B) should you order?*

Glue this sheet in your book. You will need the Smarties Stats next term.