

A chocolate conundrum!



You have **three tables** with chocolate bars on them in the classroom; **one bar on the first table, two bars on the second and three bars on the third**. There is a sign by the tables that says:

'Stand by me and you can have my chocolate. However, you must share my chocolate equally between all the other people that stand by me.'

First thing in the morning, Mrs Fares walks in and goes to stand by **table three** – she knows that this way, she'll have **three chocolate bars** to herself!

Next, Mrs Wagner walks in and she goes to stand by **table two** for **two chocolate bars**.

Q. What fraction of the chocolate bars would Mrs Wagner get if she were to **share table three's chocolate** with Mrs Fares? ____ chocolate bars.

Mr Durrant walks in and ponders his decision. Where should he go?

Q. What **fraction** or **whole** of the chocolate bars would Mr Durrant get:

- At table one? ____ chocolate bars.
- At table two? ____ chocolate bars.
- At table three? ____ chocolate bars.

Q. Which table should Mr Durrant go to? Table ____

Quick! All of 4Y have just turned up and are coming in one by one!

Q. Where should each child go?

Remember, there are 34 children in 4Y and they'll all go to the table where they'll share the largest quantity of chocolate. Can you create a spreadsheet to show your results? Remember to label what order people enter the room in and where they go. Use the example below to help you.

Table 1		Table 2		Table 3	
		2 nd . Mrs Wagner	2 bars	1 st . Mrs Fares	3 bars
				3 rd . Mr Durrant	1 ½ bars