Goal: Understand what is meant by **a fair share** and how to calculate it.

1. The context of Fair Division

2. The definition of **a fair share**:

3. An starter example

What is being divided:	6 muffins			
	<ul> <li>2 apple-walnut (A)</li> <li>2 blueberry (B)</li> <li>2 cheese &amp; jalepeno (C)</li> <li>the package of 6 cost \$12</li> <li>Xavier (X), Yuri (Y), and Zariah (Z)</li> <li>X has no particular preference.</li> </ul>			
Cost:				
Parties (or who is doing the splitting):				
Preferences:				
	Y allergic to all nuts so can't eat the apple ones.			
	Z likes A twice as much as B or C			

- (a) **Ignoring all preferences** and just using the cost of the package, what is the value of a muffin?
- (b) In a dollar amount, what would be the value of a fair share in this case?
- (c) Fill out the table below indicating for each party (X,Y, or Z), the dollar amount **they** would assign to each muffin. The total value should always sum to \$12. (!!)

party	A	A	В	В	C	C	total for package
X							
Y							
Z							

- 4. YOU pick a division of the 6 muffins into three fair shares according to Xavier's values.
- 5. What is the value of the each share according to **Yuri's** values?
- 6. What is the value of the each share according to **Zariah's** values?