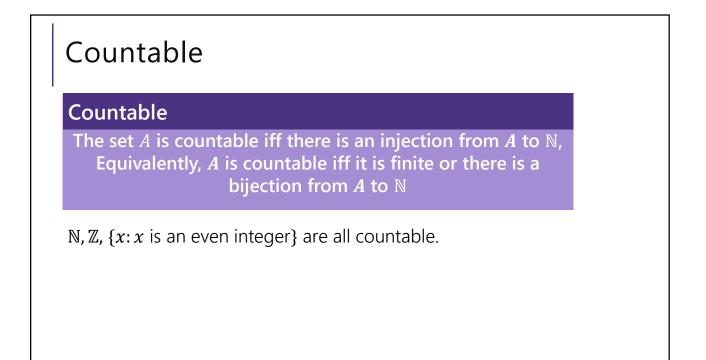


Some infinite sets

Two sets A, B have the same size (same cardinality) if and only if there is a bijection $f: A \rightarrow B$

Let's compare the sizes of: \mathbb{N} , \mathbb{Z} , {x : x is an even integer}



				-			COUN			
Number	Digits after decimal	0	1	2	3	4	5	6	7	
<i>f</i> (0)	0.	3	3	3	3	3	Flipping Rule: let's set the <i>ith</i> column to: 7 if <i>f</i> (<i>i</i>)'s <i>ith</i> column is not 7 3 if <i>f</i> (<i>i</i>)'s <i>ith</i> column is 7.			
<i>f</i> (1)	0.	2	7	2	7	2				
<i>f</i> (2)	0.	1	4	1	5	9				
<i>f</i> (3)	0.	2	2	2	2	2				
<i>f</i> (4)	0.	1	2	3	4	5	0	/	ð	
<i>f</i> (5)	0.	9	8	7	6	5	4	3	2	
<i>f</i> (6)	0.	8	2	7	6	4	5	7	4	
£(7)	^	5	0	4	2	7	5	1	7	
73777733										