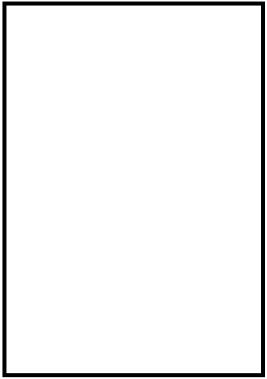
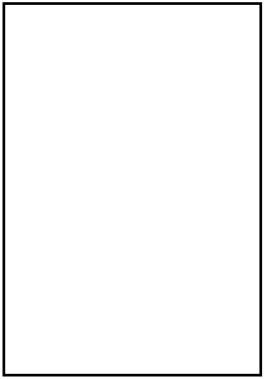
Year	Price	Quantity	Price	Quantity	Price	Quantity	Nominal GDP	
	X	X	Y	Y	Z	Z		
1	1	100	0.5	50	0.6	10	(1x100)+(0.5x50)+(0.6x10)= 131	
2	2	100	1	50	1.2	10	(2x100)+(1x50)+(1.2x10)= 262	
3	4	100	2	50	2.4	10	(4x100)+(2x50)+(2.4x10)=524	
4	8	100	4	50	4.8	10	(8x100)+(4x50)+(4.8x10)=1,048	

















































































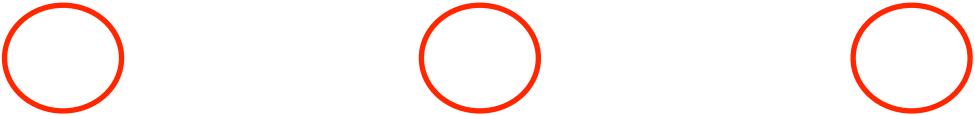










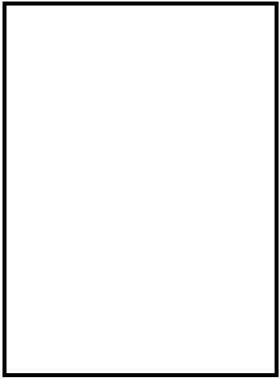


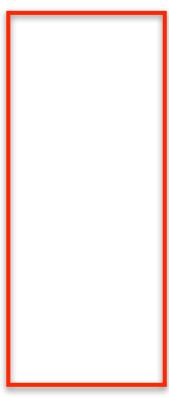
Real GDP=
$$P_{x base}Q_x + P_{y base}Q_y + P_{z base}Q_z$$

Real GDP

(1x100)+(0.5x50)+(0.6x10)= 131 (1x100)+(0.5x50)+(0.6x10)= 131(1x100)+(0.5x50)+(0.6x10)= 131

(1x100)+(0.5x50)+(0.6x10)= 131





Choosing Year 1 as the base means that we will pretend that prices did not change from what they were in year 1

The choice of base year is arbitrary. In this example we'll use Year 1 as the base

Quantities produced are the same

Real GDP correctly shows that production is the same

Nominal GDP tells us that production increased!

To calculate Real GDP first we choose a "base" year

Choosing Year 1 as the base means that we will pretend that prices did not change from what they were in year 1

Real GDP=
$$P_{x base}Q_x + P_{y base}Q_y + P_{z base}Q_z$$

Voor	Price	Quantity	Price	Quantity	Price	Quantity		
Year		X	Y	Y	Z	Z	Real GDP	
1	1	100	0.5	50	(0.6)	10	(1x100)+(0.5x50)+(0.6x10)= 131	
2	1	100	0.5	50	0.6	10	(1x100)+(0.5x50)+(0.6x10)= 131	
3	1	100	0.5	50	0.6	10	(1x100)+(0.5x50)+(0.6x10)= 131	
4	1	100	0.5	50	0.6	10	(1x100)+(0.5x50)+(0.6x10)= 131	

Quantities produced are the same

Real GDP correctly shows that production is the same

Comparing Real and Nominal GDP