

Number Base Clocks

Exploration Questions

1. Using the activity, select 3 number bases other than base 10 and fill in the chart counting from 1-20 in your selected base number system. Make sure that the box labeled “Number Clocks in Base 10” is not selected for this.

Base 10	Base _____	Base _____	Base _____
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

2. Examine the chart. What similarities do you notice between the numbers represented in base 10 and the numbers represented in other bases?
3. What is the number 342 in base 6 written as in base 10? Explain your thinking.
4. Explain why numbers in lower bases have more digits. Support your answer with an example.