



Circle Patterns

Task 1:

Study the pattern and then draw figures 4 and 5. Use the information to complete the table at the bottom.

Pattern A

1. ●●●●●

2. ●●●●●
●●●●●

3. ●●●●●
●●●●●
●●●●●

4.

5.

Figure Number	Number of Circles
1	
2	
3	
4	
5	
6	
10	
n	

Task 2:

Study the pattern and then draw figures 5 and 6. Use the information to complete the table at the bottom.

Pattern B

1. 

2. 

3. 

4. 

5.

6.

Figure Number	Number of Circles
1	
2	
3	
4	
5	
6	
10	
n	

Task 3: Analysis Questions

1. How is Pattern A growing (what is being added each time)?
2. How is Pattern B growing (what is being added each time)?
3. Pattern ___ is growing faster because _____.
4. How will you see the difference in how fast each pattern is growing on the graph (what will be different about the lines when graphed)?

Task 4:

Using the graph below, graph the coordinates from each of your tables (as many as fit). Use one color for the graph of pattern A and another color for the graph of Pattern B.

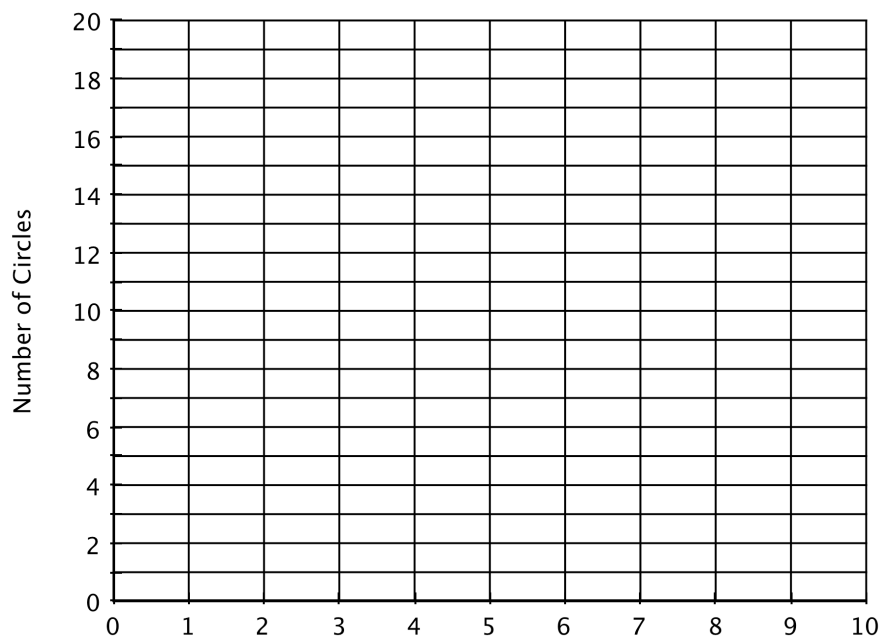


Figure Number