

Independent Practice: **INDUCTIVE REASONING**

NAME: _____

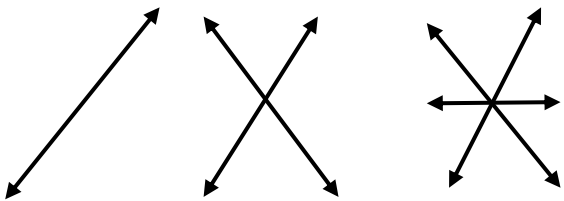
DATE: _____

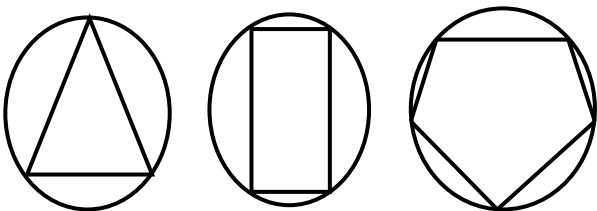
PERIOD: _____

For #1-6, write or draw the next two terms in each sequence:

1. 1, 2, 4, 7, 11, 16, 22, _____, _____.

2. January, March, May, July, _____, _____.

3.  , _____, _____.

4.  , _____, _____

5. M, V, E, M, _____, _____.

6. 0.1, 0.01, 0.001, _____, _____.

For #7-10, make conjectures based on the patterns observed.

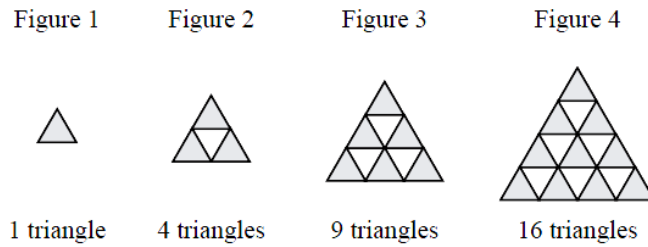
7. The years 1996, 2000, 2004, 2008, 2012 were all leap years.

a. Make a conjecture about leap years. _____

b. Circle the leap years: 2020, 2030, 2076, 2082, 2400

8. $0, \frac{1}{2}, \frac{3}{4}, \frac{7}{8}, \frac{15}{16},$ _____, _____.

9.

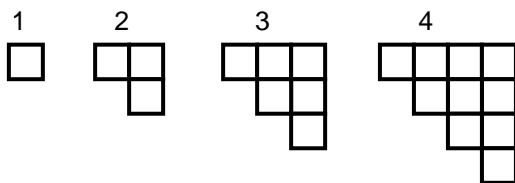


Based on the configurations, what would be the number of triangles in the next figure?

What would be the number of triangles in the 10th figure?

What would be the number of triangles in the 20th figure?

10. Use the pattern below. Each figure is made up of squares that are 1 unit by 1 unit.



The distance around (perimeter) of the first object is 4 units. The distance around the Figure 2 is 8 units. Fill in the table below.

Figure number	1	2	3	4	5	6
Distance around	4	8	12			

What would be the distance around (perimeter) of the Figure 10?