1. Add, subtract, or multiply by the number in the circle.

a) 88 \_\_\_\_\_ b) 27 \_\_\_\_\_ c) 7 \_\_\_\_\_

2. Find the gap between the numbers. Then extend the pattern.

a) 21 , 24 , 27 , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

b) 36 , 31 , 26 , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

3. Continue the sequence by adding or subtracting by the number given.

a) (add 4) 21, 25, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ b) (subtract 7) 39, 32, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

3. Jan has 25 pieces of paper in his binder. He uses 6 pieces each day.

How many pieces are left after 4 days?

25, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

**BONUS►** Continue the sequence by subtracting the number given.

(subtract 200) 2738, 2538, \_\_\_\_\_\_\_, \_\_\_\_\_\_\_, \_\_\_\_

6. Find the gap between the numbers. Then extend the pattern.

a) 7 , 11 , 15 , \_\_\_\_ , \_\_\_\_ , \_\_\_\_ b) 23 , 20 , 17 , \_\_\_\_ , \_\_\_\_ , \_\_\_\_

7. Extend the pattern, given the pattern rule.

a) Start at 42. Add 10 each time. 42, \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_

b) Start at 99. Subtract 11 each time. 99, \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_

8. a) Extend the number pattern in the table.

|  |  |
| --- | --- |
| **Figure** | **Number of Blocks** |
| 1 | 3 |
| 2 | 6 |
| 3 | 9 |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **Figure** | **Number of Blocks** |
| 1 | 2 |
| 2 | 8 |
| 3 | 14 |
|  |  |
|  |  |
|  |  |

i) ii)

b) How many blocks would be in Figure 7 of part i) above? Explain how you know.

9. Complete the table. Circle the number of petals on four flowers.

|  |  |
| --- | --- |
| **Impatiens** | **Number of Petals** |
| 1 | 5 |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **Daisies** | **Number of Petals** |
| 1 | 10 |
|  |  |
|  |  |
|  |  |

a) b)

10. Trout were recently re-introduced into Rainbow Lake, which is a perfect place for

trout to live. How many trout would there be after 4 years if 10 fish were released   
 the first year and the number of fish doubled each year? (**This is a tough one! BONUS!)**

11. Clare makes an ornament like the one shown. She has 5 more rectangles.   
 Fill in the table to show how many more triangles she will need.

|  |  |  |
| --- | --- | --- |
| **Number of Ornaments** | **Rectangles** | **Triangles** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

How many lawns has he mowed by Sunday evening