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# Number Sequences

Name: \_\_\_\_\_

Date: \_\_\_\_\_

For each sequence, find the next term. Write the rule you used.

1. **17, 24, 31, 38, 45, \_\_\_\_**

Rule: \_\_\_\_\_

2. **5, 15, 45, 135, 405, \_\_\_\_**

Rule: \_\_\_\_\_

3. **6, 12, 22, 36, 54, \_\_\_\_**

Rule: \_\_\_\_\_

4. **6, 9, 12, 15, 18, \_\_\_\_**

Rule: \_\_\_\_\_

5. **2, 8, 32, 128, 512, \_\_\_\_**

Rule: \_\_\_\_\_

6. **7, 13, 23, 37, 55, \_\_\_\_**

Rule: \_\_\_\_\_

7. **13, 6, -1, -8, -15, \_\_\_\_**

Rule: \_\_\_\_\_

8. **4, 16, 64, 256, 1024, \_\_\_\_**

Rule: \_\_\_\_\_

9. **3, 9, 19, 33, 51, \_\_\_\_**

Rule: \_\_\_\_\_

10. **19, 10, 1, -8, -17, \_\_\_\_**

Rule: \_\_\_\_\_



# Number Sequences

1. next = 52 (rule: add 7)
2. next = 1215 (rule: multiply by 3)
3. next = 76 (rule:  $n^2$  pattern (add  $2(2n+1)$ ))
4. next = 21 (rule: add 3)
5. next = 2048 (rule: multiply by 4)
6. next = 77 (rule:  $n^2$  pattern (add  $2(2n+1)$ ))
7. next = -22 (rule: add -7)
8. next = 4096 (rule: multiply by 4)
9. next = 73 (rule:  $n^2$  pattern (add  $2(2n+1)$ ))
10. next = -26 (rule: add -9)