<u>DIRECTIONS</u>: Find a formula for the n^{th} term of each arithmetic sequence.

1.	24, 32, 40, 48,	2.	30, 20, 10, 0,
3.	-3, -10, -17, -24,	4.	-6, -1, 4, 9,
5.	7, 11, 15, 19,	6.	13, 4, -5, -14,

DIRECTIONS: Find the specified term of each arithmetic sequence.

7. 4, 9, 14, 19,; <i>a</i> ₂₁	8. 3, 11, 19, 27,; <i>a</i> ₃₁
9. 100, 98, 96,; <i>a</i> ₂₅	10. 3, 3.5, 4, 4.5,; <i>a</i> ₁₀₁
11. -2, -11, -20,; <i>a</i> ₁₀₁	12. 17, 7, – 3,; <i>a</i> ₁₀₀₀

DIRECTIONS: Find the arithmetic mean of each pair of numbers.**13.** -3, 7**14.** 2.3, 9.1**15.** $\frac{4}{5}, \frac{11}{5}$

<u>DIRECTIONS</u>: Write each series in expanded form and find the sum. **16.** $\sum_{n=1}^{6} (n+10)$ **17.** $\sum_{k=1}^{8} 3k$

- **18.** $\sum_{n=1}^{6} (3n-2)$ **19.** $\sum_{n=4}^{10} (-2n+1)$
- **20.** $\sum_{n=1}^{5} 6n$ **21.** $\sum_{k=1}^{9} (k-7)$

<u>DIRECTIONS</u>: Find the sum of each arithmetic series. **22.** $\sum_{k=1}^{100} 5k$ **23.** $\sum_{n=1}^{24} (2n-1)$

- **24.** $\sum_{j=1}^{50} (3j+2)$ **25.** $\sum_{m=10}^{20} (30-m)$
- **26.**The first 100 terms of the series 4 + 7 + 10 + 13 + ...
- **27.**The first 50 terms of the series 100 + 98 + 96 + 94 + ...