

Assignment: Sigma Notation

Date _____

Evaluate each arithmetic series described.

1) $\sum_{m=1}^{15} (10m - 18)$

2) $\sum_{m=1}^7 (2m + 3)$

3) $\sum_{m=1}^{10} (10 - 4m)$

4) $\sum_{i=1}^5 (5i + 3)$

5) $\sum_{i=4}^{18} (9i - 6)$

6) $\sum_{n=5}^{12} (4n - 3)$

7) $\sum_{i=3}^9 (6i - 6)$

8) $\sum_{m=3}^{15} (6m + 1)$

Determine the number of terms n in each arithmetic series.

9) $\sum_{m=1}^n (4m - 12) = 4500$

10) $\sum_{k=1}^n \left(\frac{2}{3} + \frac{1}{3}k \right) = 50$

Answers to Assignment: Sigma Notation (ID: 1)

1) 930
5) 1395
9) 50

2) 77
6) 248
10) 15

3) -120
7) 210

4) 90
8) 715

