Name: _____

A2.N.10: Sigma Notation 1: Know and apply sigma notation

1 What is the value of $\sum_{m=-2}^{5}(m^2-1)$

1) 58
2) 54
3) 53
4) 50

2 What is the value of $\sum_{k=1}^{3}(2-k)^2$?

1) 1
2) 2
3) 3
4) 0

3 The value of the expression $2\sum_{n=0}^{2}(n^2+2^n)$ is

1) 12
2) 22
3) 24
4) 26

4 What is the value of $\sum_{m=1}^{3}(2m+1)^{m-1}$?

1) 15
2) 55
3) 57
4) 245

5 Compute: $3\sum_{k=1}^{4}k^2$

6 Evaluate: $\frac{1}{2}\sum_{x=2}^{5}x^2$.

7 Evaluate: $\sum_{k=3}^{6}\frac{1}{2}k^2$

8 Evaluate: $3\sum_{x=2}^{4}(x^2-5)$

9 Evaluate: $\sum_{k=0}^{3}(k^2+1)$

10 Evaluate: $\sum_{k=2}^{4}(k^2-10)$

11 Evaluate: $\sum_{x=1}^{4}(x^2-3)$

12 Evaluate: $\sum_{k=2}^{4}(k^3+1)$

13 Evaluate: $\sum_{k=2}^{4}(4-k^2)$

14 Evaluate: $\sum_{k=2}^{4}k^2-k$

15 Evaluate: $\sum_{n=1}^{5}(n^2+n)$

16 Evaluate: $\frac{1}{3}\sum_{k=2}^{4}|k-5|$

17 Evaluate: $\sum_{k=5}^{7}(k-2)^2$

18 Evaluate: $\frac{2}{3}\sum_{a=1}^{4}(a+1)^2$

19 Evaluate: $\sum_{k=0}^{3}(3k-2)^2$

20 Evaluate: $\sum_{k=1}^{4}(k+2)^3$

21 Find the value of $\sum_{k=1}^{4}\frac{12}{k}$

22 Evaluate: $\sum_{k=1}^{3}\frac{6}{k}$

23 Evaluate: $\sum_{r=1}^{3}r^{(r-1)}$