F.BF.B.6: Sigma Notation 4

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

2 Evaluate: $\sum_{k=1}^{4} 2k^2$

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

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

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

6 Evaluate: $\sum_{k=2}^{4} (k^2-1)$

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

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

9 Evaluate: $\sum_{k=4}^{6} (k^2-8)$

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

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

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

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

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

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

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

17 Find the value of $\sum_{n=1}^{3}(n+1)(n-1)$

18 Find the value of $\sum_{n=1}^{3}(n^2+n)$

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

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

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

22 Find: $\sum_{k=1}^{3}k^k$

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

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

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

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

27 Find the value of $\sum_{k=1}^{2}\left(\sin\frac{k\pi}{2}\right)$

F.BF.B.6: Sigma Notation 4
Answer Section

1 ANS:
90

REF: 068406siii
2 ANS:
60

REF: 019108siii
3 ANS:
27

REF: 068906siii
4 ANS:
43

REF: 080209siii
5 ANS:
18

REF: 088604siii
6 ANS:
26

REF: 018204siii
7 ANS:
38

REF: 018805siii
8 ANS:
18

REF: 089807siii
9 ANS:
53

REF: 088119siii
10 ANS:
−1

REF: 018704siii
11 ANS:
−17

REF: 089010siii

12 ANS:
50

REF: 068006siii
13 ANS:
7

REF: 069203siii
14 ANS:
36

REF: 069511siii
15 ANS:
155

REF: 019206siii
16 ANS:
70

REF: 060114siii
17 ANS:
11

REF: 069109siii
18 ANS:

n	n^2+n	
1	1^2+1	2
2	2^2+2	6
3	3^2+3	12
Σ		20

REF: 068203siii
19 ANS:
20

REF: 019505siii
20 ANS:
102

REF: 088905siii
21 ANS:
432

REF: 019806siii
22 ANS:
32

REF: 018107siii

23 ANS:
12

REF: 069611siii
24 ANS:
11

REF: 019004siii
25 ANS:
25

REF: 088504siii
26 ANS:
2

REF: 010414siii
27 ANS:
1

REF: 068111siii