

A2.N.10: Sigma Notation 3: Know and apply sigma notation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Answer Section

1 ANS:
43

REF: 080209siii

2 ANS:
90

REF: 068406siii

3 ANS:
27

REF: 068906siii

4 ANS:
18

REF: 088604siii

5 ANS:
-1

REF: 018704siii

6 ANS:
18

REF: 089807siii

7 ANS:
102

REF: 088905siii

8 ANS:
-17

REF: 089010siii

9 ANS:
20

REF: 019505siii

10 ANS:
50

REF: 068006siii

11 ANS:
70

REF: 060114siii

12 ANS:
432

REF: 019806siii

13 ANS:
36

REF: 069511siii

14 ANS:
2

REF: 010414siii

15 ANS:
11

REF: 019004siii

16 ANS:
25

REF: 088504siii

17 ANS:
12

REF: 069611siii