## **Evaluate: Special Series**

T2L2S1

Evaluate each series.

1) 
$$\sum_{k=4}^{16} (3k^2 - 2)$$

2) 
$$\sum_{q=5}^{12} (8 + 2q^3)$$

3) 
$$\sum_{m=3}^{11} \left(\frac{m}{2}\right)(m)$$

## 3) $\sum_{m=3}^{11} \left(\frac{m}{2} (m^2)\right)$

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5) 
$$\sum_{p=9}^{23} (50 - 1)$$

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7) 
$$\sum_{y=11}^{27} (y(y+2))$$

8) 
$$\sum_{c=6}^{14} \left( \frac{c^3 + 1}{3} \right)$$