# Lesson 9.1 Practice: Sequences and Summation Notation

School Launch · Algebra II · Unit 9: Sequences and Series · Worksheet A

Calculator for decimals

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

**1.** Evaluate $\sum_{k=1}^{4} (-3k - 5)$. EASY

**2.** Evaluate $\sum_{k=1}^{7} (-k)$. EASY

**3.** Evaluate $\sum_{k=1}^{8} (3k - 4)$. EASY

**4.** Evaluate $\sum_{k=1}^{7} (k - 4)$. MEDIUM

**5.** Evaluate $\sum_{k=1}^{7} (2k)$. MEDIUM

**6.** Evaluate $\sum_{k=1}^{4} (4 - k)$. MEDIUM

**7.** Evaluate $\sum_{k=1}^{8} (5 - 4k)$. MEDIUM

**8.** Evaluate $\sum_{k=1}^{7} (k^2 - 5)$. HARD

**9.** Evaluate $\sum_{k=1}^{7} (k^2)$. HARD

**10.** Evaluate $\sum_{k=1}^{5} (k^2 + 5)$. HARD