Practice worksheet | Sequences and series

Arithmetic sums

Name: _____ Date: _____

6 questions | 13 marks

1. Find S_{15} when $a = 3, d = 4$. [2 marks]

2. Find $100 + 94 + 88 + \cdots + 4$. [2 marks]

3. Find the sum of the integers from 23 to 68 inclusive. [2 marks]

4. A 12-term arithmetic series starts at 7 and sums to 282. Find its last term and difference. [2 marks]

5. A runner begins at 2 km on day 1 and adds 0.5 km each day. Find the distance over 14 days. [2 marks]

6. Find positive integer n if $1 + 4 + \cdots + (3n - 2) = 145$. [3 marks]