

Name in English

Example 3 Find Arithmetic Means

Find the arithmetic mean of the following sequence.

1. $6, \_, \_, \_ \cdot \_, 42.$
2. $-4, \_, \_, \_, \_, 8$

Example 4 Use the Sum Formulas

Find the sum of following arithmetic series.

3. The first 50 natural numbers
 - a) First term $a = \_$
 - b) Common difference $d = \_$
 - c) Number of terms $n = \_$
 - d) Sum $S_n = \_$
4. $4 + 8 + 12 + \dots + 200$
 - a) First term $a = \_$
 - b) Common difference $d = \_$
 - c) Number of terms $n = \_$
 - d) Sum $S_n = \_$

5. $a_1 = 12, a_n = 188, d = 4$

a) First term $a = \underline{\hspace{2cm}}$

b) Common difference $d = \underline{\hspace{2cm}}$

c) Number of terms $n = \underline{\hspace{2cm}}$

d) Sum $S_n = \underline{\hspace{2cm}}$

6. $a_n = 145, d = 5, n = 21$

a) First term $a = \underline{\hspace{2cm}}$

b) Common difference $d = \underline{\hspace{2cm}}$

c) Number of terms $n = \underline{\hspace{2cm}}$

d) Sum $S_n = \underline{\hspace{2cm}}$