

Arithmetic Sequences Practice Worksheet

Name: _____

Date: _____

1. Find the next two terms in each sequence:

a) 2, 5, 8, 11, ____, ____

b) 30, 25, 20, 15, ____, ____

2. Identify the first term (a) and the common difference (d):

a) Sequence: 4, 10, 16, 22, ...

b) Sequence: 100, 90, 80, 70, ...

3. Write a formula for the n th term (t_n) of each sequence and find the 10th term:

a) 3, 6, 9, 12, ...

b) 20, 17, 14, 11, ...

4. Solve: How many terms are in this arithmetic sequence?

First term: 7

Common difference: 4

Last term: 55

5. The 4th term of a sequence is 22 and the 9th term is 42.

a) What is the common difference?

b) What is the first term?

c) What is the formula for t_n ?

6. In an arithmetic sequence, the 7th term is 75 and the 12th term is 105.

a) Find the value of the 1st term.

b) What is the value of the 20th term?

c) How many terms are in the sequence if the last term is 180?