Task card 1 Arithmetic Sequences

Write a rule for the nth term of the arithmetic sequence -4, 1, 6, 11, ...

Task card 2 Arithmetic Sequences

In the arithmetic sequence 8, 2, -4, -10, ..., the number -220 is the nth term. Find n.

Task card 3 Arithmetic Sequences

In an arithmetic sequence, $a_3 = 15$ and $a_{10} = 29$. Write a rule for the nth term.

Task card 4 Arithmetic Sequences

Write a rule for the nth term of the arithmetic sequence -13, -3, 7, 17, ...

Task card 5 Arithmetic Sequences

In the arithmetic sequence 18, 23, 28, 33, ..., the number 123 is the nth term. Find n.

Task card 6 Arithmetic Sequences

In an arithmetic sequence, $a_2 = 19$ and $a_5 = 31$. Write a rule for the nth term.

Task card 7 Arithmetic Sequences

Write a rule for the nth term of the arithmetic sequence -11, -18, -25, -32, ...

Task card 8 Arithmetic Sequences

In the arithmetic sequence -9, -11, -13, -15, ..., the number -67 is the nth term. Find n.

Task card 9 Arithmetic Sequences

In an arithmetic sequence, $a_5 = 37$ and $a_{10} = 87$. Write a rule for the nth term.

Task card 10 Arithmetic Sequences

Write a rule for the nth term of the arithmetic sequence 20, 30, 40, 50, ...

Task card 11 Arithmetic Sequences

In the arithmetic sequence 14, 4, -6, -16, ..., the number -326 is the nth term. Find n.

Task card 12 Arithmetic Sequences

In an arithmetic sequence, $a_4 = -23$ and $a_{12} = -47$. Write a rule for the nth term.

Task card 13 Arithmetic Sequences

Write a rule for the nth term of the arithmetic sequence -3, -2, -1, 0, ...

Task card 14 Arithmetic Sequences

In the arithmetic sequence -13, -5, 3, 11, ..., the number 163 is the nth term. Find n.

Task card 15 Arithmetic Sequences

In an arithmetic sequence, $a_4 = 3$ and $a_{10} = 27$. Write a rule for the nth term.

Task card 16 Arithmetic Sequences

Write a rule for the nth term of the arithmetic sequence 7, 0, -7, -14, ...

Task card 17 Arithmetic Sequences

In the arithmetic sequence 5, 15, 25, 35, ..., the number 325 is the nth term. Find n.

Task card 18 Arithmetic Sequences

In an arithmetic sequence, $a_5 = -32$ and $a_{12} = -95$. Write a rule for the nth term.

Task card 19 Arithmetic Sequences

Write a rule for the nth term of the arithmetic sequence -14, -24, -34, -44, ...

Task card 20 Arithmetic Sequences

In the arithmetic sequence 8, 0, -8, -16, ..., the number -256 is the nth term. Find n.

Task card 21 Arithmetic Sequences

In an arithmetic sequence, $a_2 = 3$ and $a_9 = -46$. Write a rule for the nth term.

Task card 22 Arithmetic Sequences

Write a rule for the nth term of the arithmetic sequence 4, 6, 8, 10, ...

Task card 23 Arithmetic Sequences

In the arithmetic sequence -3, -5, -7, -9, ..., the number -81 is the nth term. Find n.

Task card 24 Arithmetic Sequences

In an arithmetic sequence, $a_2 = 11$ and $a_5 = 44$. Write a rule for the nth term.

Arithmetic Sequences Task Cards

Recording sheet · Grade 9 · Answer each question. "The nth term" means term number n: in 5, 8, 11, ... the number 11 is the 3rd term. Write rules in the form a_n = dn + c, for example a_n = 3n + 2.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Arithmetic Sequences Task Cards: Answer Key

Grade 9 · Hard

The answers online

1. a_n = 5n - 9	**2.** 39	**3.** a_n = 2n + 9
4. a_n = 10n - 23	**5.** 22	**6.** a_n = 4n + 11
7. a_n = -7n - 4	**8.** 30	**9.** a_n = 10n - 13
10. a_n = 10n + 10	**11.** 35	**12.** a_n = -3n - 11
13. a_n = n - 4	**14.** 23	**15.** a_n = 4n - 13
16. a_n = -7n + 14	**17.** 33	**18.** a_n = -9n + 13
19. a_n = -10n - 4	**20.** 34	**21.** a_n = -7n + 17
22. a_n = 2n + 2	**23.** 40	**24.** a_n = 11n - 11