Task card 1 Geometric Sequences

Find the 8th term of the geometric sequence 4, 8, 16, ...

Task card 2 Geometric Sequences

Write a rule for the nth term of the geometric sequence 3, 9, 27, 81, ...

Task card 3 Geometric Sequences

Is the sequence 7, 28, 112, 448, 1792, ... arithmetic, geometric, or neither?

Task card 4 Geometric Sequences

Find the common ratio of the geometric sequence 243, 81, 27, 9, ...

Task card 5 Geometric Sequences

Find the 6th term of the geometric sequence -3, -9, -27, ...

Task card 6 Geometric Sequences

Write a rule for the nth term of the geometric sequence -5, -10, -20, -40, ...

Task card 7 Geometric Sequences

Is the sequence 1, 2, 4, 8, 16, ... arithmetic, geometric, or neither?

Task card 8 Geometric Sequences

Find the common ratio of the geometric sequence 48, 24, 12, 6, ...

Task card 9 Geometric Sequences

Find the 6th term of the geometric sequence 3, 15, 75, ...

Task card 10 Geometric Sequences

Write a rule for the nth term of the geometric sequence -2, -10, -50, -250, ...

Task card 11 Geometric Sequences

Is the sequence 2, 7, 12, 17, 22, ... arithmetic, geometric, or neither?

Task card 12 Geometric Sequences

Find the common ratio of the geometric sequence 64, 32, 16, 8, ...

Task card 13 Geometric Sequences

Find the 5th term of the geometric sequence -2, -10, -50, ...

Task card 14 Geometric Sequences

Write a rule for the nth term of the geometric sequence -2, 4, -8, 16, ...

Task card 15 Geometric Sequences

Is the sequence 6, 15, 24, 33, 42, ... arithmetic, geometric, or neither?

Task card 16 Geometric Sequences

Find the common ratio of the geometric sequence 405, 135, 45, 15, ...

Task card 17 Geometric Sequences

Find the 7th term of the geometric sequence 2, 6, 18, ...

Task card 18 Geometric Sequences

Write a rule for the nth term of the geometric sequence -4, -12, -36, -108, ...

Task card 19 Geometric Sequences

Is the sequence 9, 27, 81, 243, 729, ... arithmetic, geometric, or neither?

Task card 20 Geometric Sequences

Find the common ratio of the geometric sequence 162, 54, 18, 6, ...

Task card 21 Geometric Sequences

Find the 6th term of the geometric sequence 3, -9, 27, ...

Task card 22 Geometric Sequences

Write a rule for the nth term of the geometric sequence 2, -6, 18, -54, ...

Task card 23 Geometric Sequences

Is the sequence 6, 8, 12, 18, 26, ... arithmetic, geometric, or neither?

Task card 24 Geometric Sequences

Find the 6th term of the geometric sequence -4, -12, -36, ...

Geometric Sequences Task Cards

Recording sheet · Grade 9 · Answer each question. Write rules in the form a_n = a(r)^(n - 1), for example a_n = 3(2)^(n - 1).

Name: _____ Date: _____

Scan to check your answers

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

Geometric Sequences Task Cards: Answer Key

Grade 9 · Hard

The answers online

1. 512	**2.** $a_n = 3(3)^{n-1}$	**3.** geometric
4. $\frac{1}{3}$	**5.** -729	**6.** $a_n = -5(2)^{n-1}$
7. geometric	**8.** $\frac{1}{2}$	**9.** 9375
10. $a_n = -2(5)^{n-1}$	**11.** arithmetic	**12.** $\frac{1}{2}$
13. -1250	**14.** $a_n = -2(-2)^{n-1}$	**15.** arithmetic
16. $\frac{1}{3}$	**17.** 1458	**18.** $a_n = -4(3)^{n-1}$
19. geometric	**20.** $\frac{1}{3}$	**21.** -729
22. $a_n = 2(-3)^{n-1}$	**23.** neither	**24.** -972