Task card 1 Arithmetic & Geometric Series

Find the sum of the first 18 terms of the arithmetic series 12 + 17 + 22 + ...

Task card 2 Arithmetic & Geometric Series

Find the sum of the first 4 terms of the geometric series 1 - 3 + 9 - ....

Task card 3 Arithmetic & Geometric Series

Evaluate the sum.

$$\sum_{k=1}^{9} (k + 4)$$

Task card 4 Arithmetic & Geometric Series

Find the sum of the infinite geometric series 9 + 6 + 4 + ...

Task card 5 Arithmetic & Geometric Series

Evaluate the sum.

$$\sum_{k=1}^{5} 4 \cdot 2^{k-1}$$

Task card 6 Arithmetic & Geometric Series

Find the sum of the infinite geometric series 32 + 24 + 18 + ...

Task card 7 Arithmetic & Geometric Series

Find the sum of the first 29 terms of the arithmetic series -3 + 3 + 9 + ...

Task card 8 Arithmetic & Geometric Series

Find the sum of the first 6 terms of the geometric series 3 + 6 + 12 + ...

Task card 9 Arithmetic & Geometric Series

Find the sum of the first 19 terms of the arithmetic series 10 + 7 + 4 + ...

Task card 10 Arithmetic & Geometric Series

Find the sum of the first 8 terms of the geometric series 1 - 2 + 4 - ....

Task card 11 Arithmetic & Geometric Series

Evaluate the sum.

$$\sum_{k=1}^{13} (4k + 6)$$

Task card 12 Arithmetic & Geometric Series

Find the sum of the infinite geometric series 18 - 6 + 2 - ....

Task card 13 Arithmetic & Geometric Series

Evaluate the sum.

$$\sum_{k=1}^{3} 3 \cdot 3^{k-1}$$

Task card 14 Arithmetic & Geometric Series

Find the sum of the infinite geometric series 18 + 12 + 8 + ...

Task card 15 Arithmetic & Geometric Series

Find the sum of the first 10 terms of the arithmetic series -1 + 5 + 11 + ...

Task card 16 Arithmetic & Geometric Series

Find the sum of the first 6 terms of the geometric series 2 + 8 + 32 + ...

Task card 17 Arithmetic & Geometric Series

Find the sum of the first 8 terms of the arithmetic series 12 + 17 + 22 + ...

Task card 18 Arithmetic & Geometric Series

Find the sum of the first 4 terms of the geometric series 2 + 8 + 32 + ...

Task card 19 Arithmetic & Geometric Series

Evaluate the sum.

$$\sum_{k=1}^{17} (4k - 2)$$

Task card 20 Arithmetic & Geometric Series

Find the sum of the infinite geometric series $48 + 36 + 27 + \ldots$.

Task card 21 Arithmetic & Geometric Series

Evaluate the sum.

$$\sum_{k=1}^{5} 3 \cdot 2^{k-1}$$

Task card 22 Arithmetic & Geometric Series

Find the sum of the infinite geometric series $12 - 6 + 3 - \ldots$.

Task card 23 Arithmetic & Geometric Series

Find the sum of the first 17 terms of the arithmetic series $10 + 7 + 4 + \ldots$.

Task card 24 Arithmetic & Geometric Series

Find the sum of the first 7 terms of the geometric series $5 - 10 + 20 - \ldots$.

Arithmetic & Geometric Series Task Cards

Recording sheet · Grade 11 · Find each sum. Write fractions in lowest terms.

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

Arithmetic & Geometric Series Task Cards: Answer Key

Grade 11 · Hard

The answers online

1. 981	**2.** -20	**3.** 81
4. 27	**5.** 124	**6.** 128
7. 2349	**8.** 189	**9.** -323
10. -85	**11.** 442	**12.** $\frac{27}{2}$
13. 39	**14.** 54	**15.** 260
16. 2730	**17.** 236	**18.** 170
19. 578	**20.** 192	**21.** 93
22. 8	**23.** -238	**24.** 215