Task card 1 Arithmetic & Geometric Series

Find the sum of the first 15 terms of the arithmetic series -5 + 1 + 7 + ...

Task card 2 Arithmetic & Geometric Series

Find the sum of the first 6 terms of the geometric series 4 + 12 + 36 + ...

Task card 3 Arithmetic & Geometric Series

Evaluate the sum.

$$\sum_{k=1}^{6} (5k - 4)$$

Task card 4 Arithmetic & Geometric Series

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

Task card 5 Arithmetic & Geometric Series

Evaluate the sum.

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

Task card 6 Arithmetic & Geometric Series

Find the sum of the infinite geometric series 75 + 30 + 12 + ...

Task card 7 Arithmetic & Geometric Series

Find the sum of the first 10 terms of the arithmetic series 8 + 15 + 22 + ...

Task card 8 Arithmetic & Geometric Series

Find the sum of the first 8 terms of the geometric series 3 - 6 + 12 - ....

Task card 9 Arithmetic & Geometric Series

Find the sum of the first 28 terms of the arithmetic series -3 - 7 - 11 - ....

Task card 10 Arithmetic & Geometric Series

Evaluate the sum.

$$\sum_{k=1}^{9} (3k - 1)$$

Task card 11 Arithmetic & Geometric Series

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

Task card 12 Arithmetic & Geometric Series

Evaluate the sum.

$$\sum_{k=1}^{4} 3 \cdot 3^{k-1}$$

Task card 13 Arithmetic & Geometric Series

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

Task card 14 Arithmetic & Geometric Series

Find the sum of the first 17 terms of the arithmetic series 6 + 2 - 2 - ....

Task card 15 Arithmetic & Geometric Series

Find the sum of the first 4 terms of the geometric series 4 + 12 + 36 + ...

Task card 16 Arithmetic & Geometric Series

Find the sum of the first 6 terms of the arithmetic series 4 + 7 + 10 + ...

Task card 17 Arithmetic & Geometric Series

Find the sum of the first 6 terms of the geometric series 3 - 9 + 27 - ....

Task card 18 Arithmetic & Geometric Series

Evaluate the sum.

$$\sum_{k=1}^{6} -2k$$

Task card 19 Arithmetic & Geometric Series

Evaluate the sum.

$$\sum_{k=1}^{6} 3 \cdot 2^{k-1}$$

Task card 20 Arithmetic & Geometric Series

Find the sum of the infinite geometric series 16 + 12 + 9 + ...

Task card 21 Arithmetic & Geometric Series

Find the sum of the first 30 terms of the arithmetic series 17 + 20 + 23 + ...

Task card 22 Arithmetic & Geometric Series

Find the sum of the first 5 terms of the geometric series 4 + 8 + 16 + ...

Task card 23 Arithmetic & Geometric Series

Find the sum of the first 21 terms of the arithmetic series -5 + 0 + 5 + ...

Task card 24 Arithmetic & Geometric Series

Find the sum of the first 4 terms of the geometric series 5 + 20 + 80 + ...

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 · Medium

The answers online

1. 555	**2.** 1456	**3.** 81
4. 128	**5.** 605	**6.** 125
7. 395	**8.** -255	**9.** -1596
10. 126	**11.** $\frac{27}{2}$	**12.** 120
13. 8	**14.** -442	**15.** 160
16. 69	**17.** -546	**18.** -42
19. 189	**20.** 64	**21.** 1815
22. 124	**23.** 945	**24.** 425