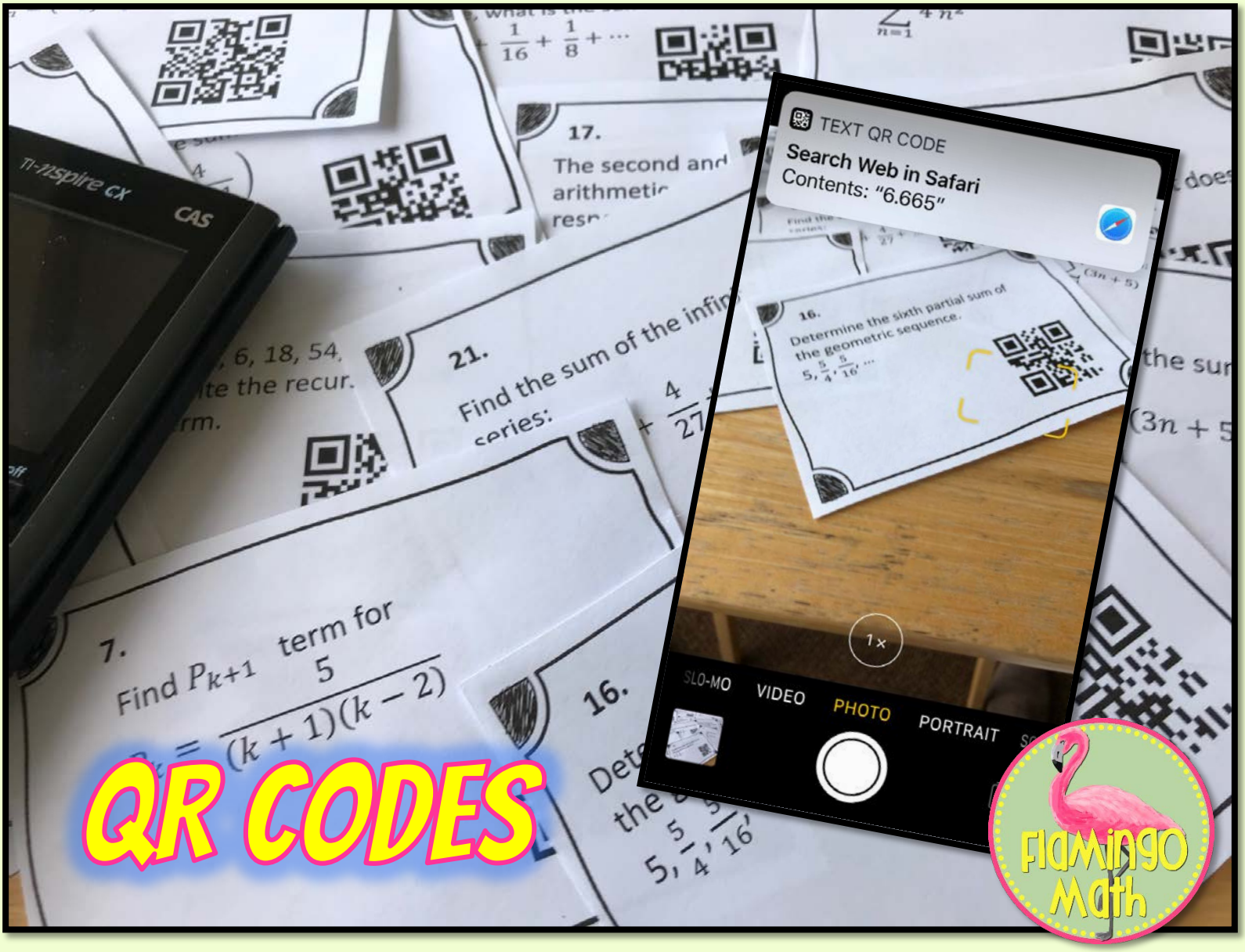
Discrete Mathematics Task Cards



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DISCRETE MATHEMATICS TASK CARDS WITH QR CODES ACTIVITY

This activity is designed to help your Pre-Calculus students Sequences, Series, and summation formulas at the end of the unit on *Discrete Mathematics*. There are 24 task cards in the activity.

Copy the task cards on card stock and laminate for durability. Students are provided a QR-Code to check their answers for each equation.

A second set is also included without the QR Codes.

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Discrete Mathematics
With QR Codes

Name _____
Date _____ Period_____

1.	2.
3.	4.
5.	6.
7.	8.
9.	10.
11.	12.

13.	14.
15.	16.
17.	18.
19.	20.
21.	22.

1.

Find the sum:

$$\sum_{n=2}^{5}\left(\frac{4}{n-1}\right)$$

2.

Find the first five terms:

$a_n = (-1)^n\,(3n-4)$

3.

Find the sum:

$$\sum_{n=1}^{500}(3n+5)$$

4.

Find a_n for the arithmetic sequence with

$a_1 = 6$, $d = -5$, and $n = 37$.

5.

Evaluate:

$$\sum_{n=0}^{10} 5\left(\frac{1}{4}\right)^n$$

6.

Find the sum of the infinite geometric series:

$$-5 + \frac{-5}{2} + \frac{-5}{4} + \frac{-5}{8} + \ldots$$

7.

9.

The sequence 2, 6, 18, 54, . . . is geometric. Write the recursive rule for the nth term.

10.

The following sequence is arithmetic. −1, 6, 11, . . . Write the explicit rule for the nth term.

11.

Write the series in summation notation and find the sum.

$$\frac{2}{3} + \frac{3}{4} + \frac{4}{5} + \ldots + \frac{8}{\ldots}$$

12.

Determine whether the infinite geometric series converges. If it does converge, what is the sum?

$$\frac{5}{4} + \frac{5}{16} + \frac{5}{64} + \ldots$$

13.

Determine whether the infinite geometric series converges. If it does converge, what is the sum?

$$\frac{1}{64} + \frac{1}{32} + \frac{1}{16} + \frac{1}{8} + \ldots$$

14.

Find the sum of the first 12 terms of the arithmetic sequence: 28, 2. . .

15.

Find the sum of the infinite series.

$$\sum_{k=1}^{\infty} 4\left(\frac{1}{5}\right)^{k-1}$$

16.

Determine the . . . partial sum of the geometric sequence 5, $\frac{5}{4}$, $\frac{5}{16}$, ...

17

. . . and a . . . with terms of an arithmetic sequence are 2 and 32 respectively. Find the explicit formula for the sequence.

18.

Find d when $a_1 = 8$ and $a_{11} = 26$.

21.

Find the sum of the infinite geometric series:

$$4 + \frac{4}{3} + \frac{4}{9} + \frac{4}{27} + \ldots$$

22.

Find a_n for the geometric sequence $a_1 = 3$, $r = 4$, and $n = 8$.

23.

Determine whether the sequence converges or diverges. If it does converge, give the limit.

$\{2n-1\}$

24.

Find n, when $a_1 = 25$, $d = -14$, $a_n = -507$.

1.

Find the sum:

$$\sum_{n=2}^{5}\left(\frac{4}{n-1}\right)$$

2.

Find the first five terms:

$a_n = (-1)^n\,(3n-4)$

3.

Find the sum:

$$\sum_{n=1}^{500}(3n+5)$$

4.

Find a_n for the arithmetic sequence with

$a_1 = 6$, $d = -5$, and $n = 37$.

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My goal is to help you bring balance into your teacher life by providing relevant content, engaging activities, and comprehensive assessments for your high-stakes math course.

Jean Adams

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