Index.Four

/A game about summation notation/

Rules: This game is best played with two teams of two people each. One team is 'X' and the other team is 'O' (or different colored bingo chips can be used).

1. Place all the game tiles on the gameboard.

2. Teams take turns declaring the answer for a card, then checking it. If they are correct, they get to stake a claim on the space. If they are incorrect, their opponent gets to claim the space.

3. The goal is to get four in a row, column, or on a diagonal.

Index.Four Clue Sheet

	Question	Answer
1	Find $\sum_{i=1}^{5} i$	15
2	Find $\sum_{i=0}^{3} i^2$	14
3	Find $\sum_{i=0}^{3} (1+i)^2$	30
4	Given $x = \{2,0,-1,3\}$, Find $\sum x_i$	4
5	Given $x = \{2,0,-1,3\}$, Find $\sum x_i^2$	14
6	Given $x = \{2,0,-1,3\}$, Find $(\sum x_i)^2$	16
7	Given $x = \{2,0,-1,3\}$, Find $\sum x_i^2 - 2$	12
8	Given $x = \{2,0,-1,3\}$, Find $\sum (x_i - 2)^2$	14
9	Given $x = \{2,0,-1,3\}$, Find $\sum x_i - \sum x_i^2$	–10
10	Given $y = \{a,-2a,4a\}$, Find $\sum y_i$	$3a$
11	Given $y = \{a,-2a,4a\}$, Find $\sum y_i^2$	$21a^2$
12	Given $y = \{a,-2a,4a\}$, Find $(\sum y_i)^2$	$9a^2$
13	Given $y = \{a,-2a,4a\}$, Find $\sum y_i \ - a$	$2a$
14	Given $y = \{a,-2a,4a\}$, Find $\sum y_i - \sum y_i^2$	$3a(1-7a)$
15	Given $y = \{a,-2a,4a\}$, Find $\frac{\sum y_i - \sum y_i^2}{\sum y_i}$	$(1-7a)$
16	Given $x = \{1,2,3,4\}$, Find $\sum_{i=1}^{4} x_i$	10
17	Given x $= \{1,2,3,4\}$, Find $\sum_{i=1}^{4} x_i^2$	30
18	Given $x = \{-1,3,7\}$ and $c = 11$, Find $\sum_{i=1}^{3} x_i^2$	59
19	Given $x = \{-1,3,7\}$ and $c = 11$, Find $\left(\sum_{i=1}^{3} x_i\right)^2$	81
20	Given $x = \{-1,3,7\}$ and $c = 11$, Find $\sum_{i=1}^{3} c$	33
21	Given $x = \{10,8,6,4,2\}$ and $y = \{0,3,6,9,12\}$, Find $\sum_{i=1}^{5} x_i$	30
22	Given $x = \{10,8,6,4,2\}$ and $y = \{0,3,6,9,12\}$, Find $\sum_{i=1}^{5} y_i$	30
23	Given $x = \{10,8,6,4,2\}$ and $y = \{0,3,6,9,12\}$, Find $\left(\sum_{i=1}^{5} y_i\right)^2$	900
24	Given $x = \{10,8,6,4,2\}$ and $y = \{0,3,6,9,12\}$, Find $\sum_{i=1}^{5} x_i y_i$	120

Gameboard

Game Tiles

Find $\sum_{i=1}^{5} i$	15	Find $\sum_{i=0}^{3} i^2$	14
Find $\sum_{i=0}^{3} (1+i)^2$	30	Given $x = \{2,0,-1,3\}$, Find $\sum x_i$	4
Given $x = \{2,0,-1,3\}$, Find $\sum x_i^2$	14	Given $x = \{2,0,-1,3\}$, Find $(\sum x_i)^2$	16
Given $x = \{2,0,-1,3\}$, Find $\sum x_i^2 - 2$	12	Given $x = \{2,0,-1,3\}$, Find $\sum (x_i - 2)^2$	14
Given $x = \{2,0,-1,3\}$, Find $\sum x_i - \sum x_i^2$	-10	Given $y = \{a,-2a,4a\}$, Find $\sum y_i$	3a

Given $y = \{a, -2a, 4a\}$, Find $\sum y_i^2$	$21a^2$	Given $y = \{a, -2a, 4a\}$, Find $(\sum y_i)^2$	$9a^2$
Given $y = \{a, -2a, 4a\}$, Find $\sum y_i - a$	$2a$	Given $y = \{a, -2a, 4a\}$, Find $\sum y_i - \sum y_i^2$	$3a(1 - 7a)$
Given $y = \{a, -2a, 4a\}$, Find $\frac{\sum y_i - \sum y_i^2}{\sum y_i}$	$(1 - 7a)$	Given $x = \{1,2,3,4\}$, Find $\sum_{i=1}^{4} x_i$	10
Given x $= \{1,2,3,4\}$, Find $\sum_{i=1}^{4} x_i^2$	30	Given $x = \{-1,3,7\}$, Find $\sum_{i=1}^{3} x_i^2$	59
Given $x = \{-1,3,7\}$, Find $\left(\sum_{i=1}^{3} x_i\right)^2$	81	Given $c = 11$, Find $\sum_{i=1}^{3} c$	33

Given $x = \{10,8,6,4,2\}$ and $y = \{0,3,6,9,12\}$, Find $\sum_{i=1}^{5} x_i$	30	Given $x = \{10,8,6,4,2\}$ and $y = \{0,3,6,9,12\}$, Find $\sum_{i=1}^{5} y_i$	30
Given $x = \{10,8,6,4,2\}$ and $y = \{0,3,6,9,12\}$, Find $\left(\sum_{i=1}^{5} y_i\right)^2$	900	Given $x = \{10,8,6,4,2\}$ and $y = \{0,3,6,9,12\}$, Find $\sum_{i=1}^{5} x_i y_i$	120