Christmas cards

Annotation

Myla uses a table to explain her pattern that involves connecting elements of a sequential pattern to their ordinal positions. She can explain the relationship between the numbers in the pattern and how she could work out a simple unknown.

Problem: Christmas cards

Room 7 are making Christmas cards for their families.

The teacher poses this problem:

Can you make a design that includes a pattern and an explanation of how it works?

Student Response

Myla makes her design and chart on the class computer.

Merry Christmas from Myla

My Christmas card design By Myla		
Row	Green triangle branches	Green Triangles altogether
1 top	1	1
2nd	2	3
3rd	3	6
4th	4	10
5th bottom	5	15

Teacher: Tell me about what you have done.

Myla: Well I made my design then wrote my pattern on the chart so I could show how it worked. There's one more green triangle branch in each row. I know how many branches there are altogether if I keep just adding on the number in the last row to what I had before.
I wanted to make the tree with eight rows but that would have meant adding on 6, then 7 and then 8 more, which would have made 36. But I didn't have enough space.