

Mathletics

Series F



# THE AGE OF AUNT LIL



Rich Learning Task

Reasoning

# The Age of Aunt Lil

This is my Aunt Lil. Her favourite colour is purple. She rides a scooter and she loves stars. When she was younger she used to have green hair and play lead guitar in a band.

I know most things about Aunt Lil except that I do not know her age.

Every year I ask her and every year she says the same thing:

"How old are you?"

"One year older than last year and two years older than the year before that."

Then one day I had my chance to work it out!

Mum threw her a surprise birthday party while I was away at summer camp. When I returned I saw that Aunt Lil had left me this note.

Hey Jess,  
The party was fun even though we missed you. Your mom made me a purple birthday cake with stars instead of candles. We saved you the last piece. Enjoy!  
Aunt L

I saw one piece of cake with four stars on it. I asked my mum how many pieces of cake there were to begin with and this is what she said:

"We cut the cake so that everyone could have the same sized piece with 4 stars on each but I can't remember how many people were here, hmmm let me think..."

One guest hid behind the sofa. Another 2 guests hid behind the curtains.

Then Aunt Lil arrived with a friend. Everyone had a piece except for me. I left my piece for you."



Help Jess work out how old her Aunt Lil is.

Show what her cake looked like.

Explain your thinking.

Name \_\_\_\_\_