

The Lion's Share



The animals were having trouble sharing a cake. My teacher tried to help him learn this important skill.



She gave them a giant Strawberry layer cake and advised the lion to take a knife and cut it in $\frac{1}{2}$. After the cut, he could eat $\frac{1}{2}$ and give the other $\frac{1}{2}$ to her.

The Lion did everything right until the last step. He had trouble giving up the other $\frac{1}{2}$. Instead, he started the procedure again and cut that piece in $\frac{1}{2}$.

This continued.... How much cake was left after 7 attempts at sharing?
How long could this continue for?

Show your thinking

	Not Yet	Getting There	I Get it!	Going Beyond
Reasoning;	At this time I don't really understand.	At this time I don't really understand but I am beginning to offer a solution. Some of my reasoning makes sense.	I understand and I am showing you a solution to how I got there. Most of my reasoning makes sense.	I really understand and I am showing you a detailed solution as to how I got there. All of my reasoning makes sense.
Accuracy	At this time I have major errors in my learning.	At this time I have a few errors.	Most of my learning is correct.	It is rare to see any errors in my learning.
Communication	I am not using correct math words yet. At this time, I can't explain my thinking with words, numbers or pictures.	I am trying to use some math words. Some of the time, I can explain with words, numbers and/or pictures.	I am using correct math words. I can explain clearly with words, numbers and/or pictures.	I am using correct math words to be as clear and exact as possible. I can explain clearly with words, numbers and pictures