

Problem #14 – Hot Chocolate



I love hot chocolate and coffee. I begin by making one cup of hot chocolate. I drink half of my cup and then I fill the cup with coffee. I stir the new mixture and drink half of the cup and then fill the cup again with coffee.

I continue this pattern until I have consumed two full cups of the hot liquid. When I fill the cup again with coffee, how much of my original hot chocolate remains in my cup?

Due date: Monday, Jan. 30th, 2012

Submit to Mr. Streit in person or email your solution. Please place the POW number and your name in the Subject line of your email.

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All work must be shown to explain your solution.

Problem #9 – Clock Tower

Answer: 16

Solution: The bell chimes 6 times in the first five seconds because the first chime happens at zero seconds. After the initial chime, it takes one second for each chime. Therefore, in fifteen seconds, there will be 16 chimes, not 18. You begin the 15 seconds when the first chime occurs.