

<b>Description: How many rods for a ladder with 125 steps?</b> <b>Parent Tape: Early algebra, investigating linear functions, Series 5 of 7</b> <b>Date: 2005-12-15</b> <b>Location: Hubbard School</b> <b>Researcher: Professor Carolyn Maher</b>	<b>Transcriber(s): Baldev, Prashant</b> <b>Verifier(s): DeLeon, Christina</b> <b>Date Transcribed: Spring 2008</b> <b>Page: 1 of 2</b>
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### Speaker Transcription

- R3 So now I have a question. I see what you are doing. So for what number ... for odd number ... this is what you do, right? Let's say, for one twenty-five. Is that odd, one twenty-five? How will you do for one twenty-five?
- Ariel The Odd rule?
- R3 Yeah.
- Ariel I will go to one twenty-four which is ... I got a one twenty-fourrrrr... wait, wait, what am I doing it is seventy-two, I believe, no, no, don't think that... sixty two ... hah, hah, hah. I'm smart.  
[Ariel writes:  

$$\begin{array}{r} 62 \\ +62 \\ \hline 124 \end{array}$$
]
- Ariel Yeah, sixty-two.
- R3 What is it? How many you got?
- Ariel It is sixty-two, half of one twenty-four.
- R3 Yeah, but then how many rods that ladder is going to have? For one twenty-five
- Ariel I have to figure that out?
- R3 Yeah, can you figure that out?
- Ariel I doubt it.
- Ariel Let me see, if this is ...
- R3 You have got your rule, right? The rule is here.
- Ariel [making a ladder] My rule, uh my perfect rule, I have to set it up for this huge thing.
- R3 Are you saying you are going to build that entire one twenty-four? One twenty-four steps?
- Ariel No, this is two right here. [points to the ladder of two steps that he has constructed]
- Ariel [counts the rods] One, two, three, four, five, six, seven, eight.
- Ariel For sixty, it is one hundred and ninety-eight, add two it is two hundred. Wait a minute. No, we add six, oh.
- Ariel [again counts the rods] One, two, three, four, five, six, seven, eight.

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- Ariel Wait a minute. One hundred ninety-eight.
- Ariel [continues by counting the rods] One ninety-nine, two hundred, two-o-two, two-o-three, two-o-four and two-o-six.
- Ariel [looks at R3] Two hundred and six rods.
- R3 Now you were thinking in your head, so I don't know, so it is time for you to explain back to me. So I follow you from the beginning, from the beginning. [pointing to the work that Ariel had just done] One twenty five steps. You do a lot in your head, I just cannot follow you.
- Ariel One twenty five rounded to the nearest even number, it could be one twenty four or one twenty six, I did one twenty-four.
- R3 OK.
- Ariel Then one twenty four divided by two is sixty two.
- R3 How did you find out, OK?
- Ariel Sixty is... I went back to my recent observations, sixty is one hundred ninety-eight and then I made these two steps which gave me eight more rods which makes it one hundred ... two hundred and six rods. Now we shall multiply
- Ariel [starts writing in his paper and mumbles and gesticulates as he writes]  
[He writes:
- $$\begin{array}{r}
206 \\
\underline{\times 2} \\
412 \\
\underline{- 2} \\
410]
\end{array}$$
- Ariel Four-ten.
- R3 So.