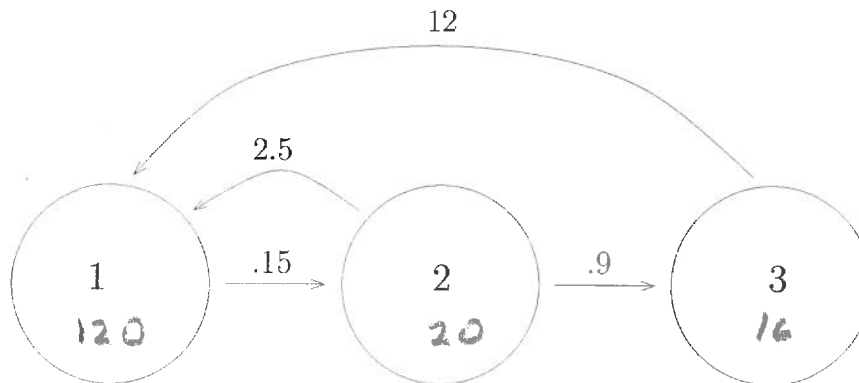


Quiz 19

Name: Key

You must show your work to get full credit.

A type of wild parsley has three stages. Stage 1 is seedlings. Stage 2 is juveniles. Stage 3 is adults. A population of this parsley is growing in a meadow. The life history of this population is summarized in the following loop diagram.



1. What does the number .15 represent? *The proportion of seedlings that survive to be juveniles.*
2. What does the number 12 represent? *The average number of offspring of an adult that survive a year to be seedlings.*
3. Assume that this year the field has 120 seedlings, 20 juveniles, and 16 adults. Then

$$20(2.5) + 16(12)$$

How many seedlings are there next year? 242

$$120(.15)$$

How many juveniles are there next year? 18

$$20(.9)$$

How many adults are there next year? 18