

We've recently made an accessibility improvement to the community and therefore posts without any content are no longer allowed. Please use the spoiler feature or add a short message in the message body in order to submit your weekly challenge.



2022-05-26 Updates: Email: If you're not seeing emails be delivered from the Community, please check your spam and mark the Community emails as not junk. Thank you for your patience.



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## Weekly Challenge

Solve the challenge, share your solution and summit the ranks of our Community!

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### IDEAS WANTED

We're actively looking for ideas on how to improve Weekly Challenges and would love to hear what you think!

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## Challenge #123: When will Rabbits Rule the World?



JoeM  
Alteryx Alumni (Retired)

This one has been on my whiteboard for awhile and I've been meaning to publish this challenge. This weekly challenge should be a fun one! The question we are trying to answer is: In what future month/year will a new breed of rabbits to exceed the human population 2:1?



Let's set some rules for how this new breed of rabbit populates so we can try to find the day our civilization will be under the rule of our new-found long-eared overlords.

- 1) We will start with 1 female and 1 male rabbit born today (0 months old)
- 2) Each month, each female produces a litter of 4 bunnies: 1 male and 3 females
- 3) A female cannot start to reproduce until she has matured to 4 months of age
- 4) All rabbits live only to 24 months in age. (Alive months 0-23, they cease to live at the start of the 24th month)
- 5) Don't forget human population grows too! Assume a 0.058% month over month human population growth!

I have provided an answer, but there may be little monthly nuances that account for slightly different answers. Sound-off on when you found out it is going to happen!

[challenge\\_123\\_start\\_file.yxmd](#)

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ACE patrick\_digan  
17 - Castor

[Spoiler](#)

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TerryT  
Alteryx Community Team

I got the same month, but my numbers don't match exactly!

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**CharlieS**  
17 - Castor

I got the same date, but slightly different population counts for humans and the Supreme Overlords. Maybe this is close enough to count like in horseshoes and Holy Hand Grenades.

▷ Spoiler

Challenge\_0123-CharlieS\_Solution.yxzp



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**NicoleJohnson**  
15 - Aurora



Slightly different human population for my final result, with 24 extra humans - which frankly, in this terrifying scenario, I will gladly take.

▷ Spoiler

Thanks for the super fun challenge, @JoeM! I can see why you were so excited for this one :) Now, off to go pull anything that looks like a carrot out of my garden, just in case...

Cheers,  
NJ

challenge\_123\_NicoleJohnson.yxzp



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**terry10**  
11 - Bolide

Averting my eyes from the GIF, I didn't notice the 2:1 population threshold and spent way too much time trying to find the error in my workflow. :(

▷ Spoiler

challenge\_123\_terry10.yxzp



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**mmongeon**  
8 - Asteroid

Here's my solution.  
Like many of the other submissions, I don't have the exact same population numbers, but I end up on the same month.

▷ Spoiler

challenge\_123\_mongeon\_complete.yxzp



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 **ACE patrick\_digan**  
17 - Castor

[@mmongeon](#) Your solution truly made my day! 51 formulas in one formula tool!

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 **ACE Ladarthure**  
14 - Magnetar

Was very funny and made me learn how to use the iterative macro, thank's to @patrick\_digan for the first answer and showing a way to do this macro (was planning to use multi\_rows formula...

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 **ACE ggruccio**  
ACE Emeritus

Going to see iterations of rabbits in my sleep!

challenge\_123\_gg\_finish.yxzp

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