

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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[Weekly Challenge](#)

## Challenge #160: Diamonds R Forever



ChristineB  
Alteryx Alumni (Retired)

A solution to last week's challenge can be found [here](#).

Happiest of birthdays to those of you born in the month of April! Did you know that the diamond is this month's birthstone? To celebrate, analyze a dataset to count the number of diamonds that fall within a range of carat weights.

The zip file below contains the file BigDiamonds.rda. Use the R tool to read in the data to use in Designer. You may find [this article](#) helpful for this challenge!

Note: Make sure you have your Predictive tools installed!



Happy Birthday from the shiniest of diamonds...Neil Diamond.

BigDiamonds.zip

challenge\_160\_start\_file.yxmd

challenge\_160\_solution.yxmd

[Data Analysis](#) [Data Preparation](#) [Difficult](#) [Join](#) [Predictive](#) [Preparation](#) [Transform](#)

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patrick\_digan  
17 - Castor

► Spoiler

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**nwhaley**  
5 - Atom

▷ Spoiler

Solution attached. Also quickly explored how avg. price varies between certification agencies...wow.

 challenge\_160\_nwhaley.yxmd






**PhilipManning**  
15 - Aurora

I'm forever the R-soul.

▷ Spoiler

 challenge\_160\_start\_file.yxzp





**kat**  
12 - Quasar

Challenging!

▷ Spoiler

 Challenge #160.yxmd





**estherb47**  
15 - Aurora

The R tool was very frustrating, until I realized that my slashes were in the wrong direction. User error strikes again!























































Then just wanted to group the carats like I found in the diamond charts, so my formula tool differs a bit from others




# blue nile


## DIAMOND CARAT SIZE CHART

Prior to printing, ensure that Page Scaling is set to "None" on your print dialog box. (To open the print dialog box, press CTRL+P.)

Carat Weight:	0.25	0.5	0.75	1	1.5	2	3	4	5
Round	 4.1 mm	 5.1 mm	 5.8 mm	 6.4 mm	 7.4 mm	 8.1 mm	 9.3 mm	 10.2 mm	 11 mm
Princess	 3.5 mm	 4.4 mm	 5 mm	 5.5 mm	 6.4 mm	 7 mm	 8 mm	 9 mm	 9.5 mm
Emerald	 4.5x3 mm	 5.5x4 mm	 6x4.5 mm	 6.5x5 mm	 7.5x5.5 mm	 8.5x6 mm	 9.5x7 mm	 10.5x7.5 mm	 11.5x8.5 mm
Asscher	 3.7 mm	 4.4 mm	 5 mm	 5.5 mm	 6.4 mm	 7 mm	 8.1 mm	 9 mm	 9.6 mm
Marquise	 6.5x3 mm	 8.5x4 mm	 9.5x4.5 mm	 10.5x5 mm	 12x6 mm	 13x6.5 mm	 14x7 mm	 16x8 mm	 17x8.5 mm
Oval	 5x3 mm	 6x4 mm	 7.5x5 mm	 8x5.5 mm	 9x6 mm	 10.5x7 mm	 11.5x7.5 mm	 13x8.5 mm	 14x9.5 mm

Not entirely sure I understand what I did with the R tool, other than get it to function, so something new to learn just dropped!!!

 challenge\_160\_EHB\_completed.yxmd



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 **ACE** RolandSchubert

16 - Nebula

First-time used the R tool and finally managed to bring the data to the workflow. Afterwards it seems easy and straightforward ...

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 **ACE** danilang


18 - Pollux

24 diamonds above 8 carats. Sweet Caroline, indeed!

▷ Spoiler

Dan

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 **ACE** cgoodman3

13 - Pulsar

» Spoiler

Chris  
Check out my collaboration with fellow ACE Joshua Burkhaw at [AlterTricks.com](https://AlterTricks.com)

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