

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 #178: Chuck Like a Woodchuck



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

How much could a woodchuck chuck if a woodchuck could chuck wood?

Today we are ready to answer an age-old question that has been left unanswered: How much could a woodchuck chuck if a woodchuck could chuck wood?

To best calculate this, we need to make the following assumptions:

1. First off, a point of clarification that woodchucks do not chuck wood. But what if a woodchuck could chuck wood? As a burrowing creature, the best information we have is to understand the amount of soil excavated during burrowing. We can use the weight of soil excavated to equate it to the weight of wood.
2. All soil is not created equal. Per cubic foot of type of soil, moisture, density and make-up can vary.
3. All wood is not created equal; density of wood can largely affect the cubic foot weight.

The challenge:

1. We have provided a sampling of three different woodchuck burrows excavated over a 7 day period. Within a burrow there can be rooms and tunnels that makeup a burrow. Dimensions of the rooms and tunnels have been provided in addition to the soil composition of the excavation site. Using this data set, determine the cubic feet of soil excavated and, ultimately the weight of soil excavated from each burrow.
2. Take the average weight of soil 'chucked' from each burrow.
3. From the average weight of wood across 10 tree species, figure out how many cubic feet of wood would have been chucked if a woodchuck could chuck the wood.



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Data Analysis Intermediate Join Parse Preparation Transform

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patrick\_digan

17 - Castor

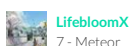
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LifebloomX

7 - Meteor

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There is an error in one of the rows within the Burrow Input Text data.

Burrow	Type	Length (in)	Width (in)	Height (in)	Soil Composition
1	Room	36	36	12	Loam - 10%; Dirt loose dry - 90%
2	Room	100	24	12	Dirt loose dry - 80%; Gravel Vlnet - 10%
3	Tunnel	300	6	6	Loam - 10%; Dirt loose dry - 90%
4	Tunnel	800	6	6	Gravel Vlnet - 80%; Gravel dry - 90%
5	Tunnel	200	6	6	Dirt loose dry - 90%; Gravel Vlnet - 90%
6	Room	48	20	12	Gravel Vlnet - 30%; Mud steady - 50%; Rock well blasted - 20%
7	Room	25	50	12	Gravel dry - 30%; Loam - 10%; Sand wet - 40%; Dirt loose dry - 20%
8	Room	26	44	12	Sand wet - 80%; Mud steady - 20%
9	Tunnel	400	6	6	Gravel Vlnet - 40%; Mud steady - 40%
10	Tunnel	100	6	6	Gravel dry - 10%; Gravel Vlnet - 30%; Mud steady - 60%
11	Tunnel	300	6	6	Loam - 10%; Dirt loose dry - 60%; Rock well blasted - 30%
12	Tunnel	350	6	6	Gravel Vlnet - 90%; Mud steady - 50%
13	Room	100	50	12	Sand wet - 90%; Gravel Vlnet - 10%
14	Room	50	40	12	Gravel dry - 80%; Gravel Vlnet - 20%
15	Tunnel	200	6	6	Sand wet - 10%; Dirt loose dry - 60%; Gravel Vlnet - 30%
16	Tunnel	100	6	6	Gravel dry - 10%; Gravel Vlnet - 30%; Mud steady - 60%

The row doesn't add up to 100 %. Also, what does the Cubit Foot Dried (lbs) mean exactly?

Tree	Cubic Foot Dried (lbs)	
1 Sugar Maple	44	
2 Chestnut Oak	46	
3 Lodgepole Pine	29	
4 Yellow Poplar	28	
5 Redwood	30	
6 Tamarack	37	
7 Witch-Hazel	43	
8 Balsam Fir	26	
9 American Elm	36	
10 Black Cottonwood	24	
*		

Does this mean lbs per cubic foot? or ft^3 per pound (lb)?

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**ddiesel**  
13 - Pulsar

Fun one!

▷ Spoiler

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**JORGE4900**  
8 - Asteroid

I also noticed that error not matching 100% that [@LifebloomX](#) mentioned.

I used Regex to parse out the two fields--(Soil & Percent), but the following line always came out with extra spaces; I ended up using an extra data cleansing tool to get rid of the trailing space.

I love Regex tool, but sometimes it makes me struggle.

Sand, wet - 90%  
`\s*(.*)s{1,2}-\s(d{2})%`

▷ Spoiler

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**ACE T. Willins**  
14 - Magnetar

I also saw the less than 100% error. Data collection workflow needs validations built in? Now if a woodchuck sells seashells to make batter bitter was he fuzzy?


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RolandSchubert

16 - Nebula


▷ Spoiler

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LifebloomX

7 - Meteor

I also didn't like the fact that we are told to take the average of the wood without knowing the ratio of the wood woodchucks use. The ratio of wood should've been provided just like the soil.

▷ Spoiler


I got rid of the % by changing the field to Double.

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fmeo


8 - Asteroid

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pjdit

8 - Asteroid



My Solution!

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