

Name: _____

OCTOBER 5, 2015

Today in our Math Congress, we talked about all of the ways to package 24 oranges. The class agreed that the easiest way to make sure we had all the possibilities, was to organize by layer. Remember that the last number in our equation represents the amount of layers. Here are our results.

<u>1 LAYER</u>	<u>2 LAYER</u>	<u>3 LAYER</u>	<u>4 LAYER</u>	<u>6 LAYER</u>	<u>8 LAYER</u>
24 X 1 X 1	12 X 1 X 2	8 X 1 X 3	6 X 1 X 4	4 X 1 X 4	3 X 1 X 8
12 X 2 X 1	6 X 2 X 2	4 X 2 X 3	3 X 2 X 4	2 X 2 X 4	
8 X 3 X 1	3 X 4 X 2				
6 X 4 X 1					
<u>12 LAYER</u>	<u>24 LAYER</u>				
2 X 1 X 12	1 X 1 X 24				

There were 16 possibilities!! Great work today. Now I want you to see if you can use the same strategy below to help you find all the possibilities to package 12 oranges. The number will be smaller. It might work best if you use a chart.

How many box possibilities are there for 12 oranges?