

How to build a box!

We talked last week about how to load a train car in as many ways as possible: we discovered that there are lots of combinations of numbers to make a larger number.

Today, let's think about all of the different ways to build a rectangular box of produce by using Cuisenaire rods. Pick a number for your box and find different ways to arrange rods into rectangles to make it. What kinds of rectangles can you find? Are there short and wide rectangles? Tall and narrow? Square sized?

Here's an example of the different ways to build a rectangle worth 6:



$1 \times 6 = 6$



$2 \times 3 = 6$



$3 \times 2 = 6$



$6 \times 1 = 6$



Your box size choices:

12 15 16

18 24 28

32

Be sure to label the height and width of each of your boxes AND write a multiplication (groups of) equation for each one. Have fun!