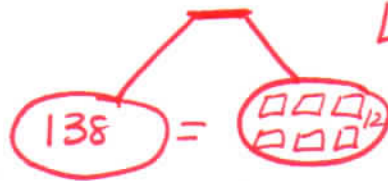


Balanced Scales

- ① There is a balanced scale on the table. There are 138 Cheez-Its on one side and 12 on the other with 6 boxes (boxes don't weigh anything \rightarrow scale is adjusted) over more crackers. Each box has the same amount of crackers under it. How many Cheez-Its under each box?



Let x = # of cheez-its under each box

$$\begin{array}{r} 138 = 12 + 6x \\ -12 \quad -12 \\ \hline 126 = 6x \end{array}$$

$$\boxed{x = 21 \text{ Cheez-Its}}$$

- ② A balanced scale on the counter has 96 gram weights on one side. The other side has 15 gram weights and 3 upside down cups (cups don't weigh anything) with an equal # of gram weights under each cup. How many weights under each cup?

$$\begin{array}{r} 96 = 15 + 3x \\ -15 \quad -15 \\ \hline 81 = 3x \end{array}$$

$$\boxed{x = 27 \text{ gram weights}}$$