



# Meals for Mammoths

Columbian mammoths were some of the largest mammals that ever existed, and like many large animals, they were herbivores. Mammoths lived almost entirely on grass!

Scientists estimate the average Columbian mammoth ate 300 pounds of grass per day. At 245 calories per pound, this means one of these giants consumed 73,500 calories every day.

$$\frac{300 \text{ lb-grass}}{1} \times \frac{245 \text{ calories}}{1 \text{ lb-grass}} = \frac{73,500 \text{ calories}}{1}$$

What if mammoths had chosen other foods? How much would they need to eat then? We can use factor-label equations, like the example above, to find out.



**Alfalfa**

970 calories per pound

$$\frac{73,500 \text{ calories}}{1} \times \frac{1 \text{ lb alfalfa}}{970 \text{ calories}} = \frac{\quad \text{lb alfalfa}}{1}$$



**Corn**

1536 calories per pound

$$\frac{73,500 \text{ calories}}{1} \times \frac{1 \text{ lb corn}}{1536 \text{ calories}} = \frac{\quad \text{lb corn}}{1}$$



**Oats**

1765 calories per pound

$$\frac{73,500 \text{ calories}}{1} \times \frac{1 \text{ lb oats}}{\quad \text{calories}} = \frac{\quad \text{lb oats}}{1}$$



**Pumpkin**

118 calories per pound

$$\frac{\quad \text{calories}}{1} \times \frac{1 \text{ lb pumpkin}}{\quad \text{calories}} = \frac{\quad \text{lb pumpkin}}{1}$$



**Strawberries**

145 calories per pound

$$\frac{\quad}{1} \times \frac{\quad}{1} = \frac{\quad}{1}$$