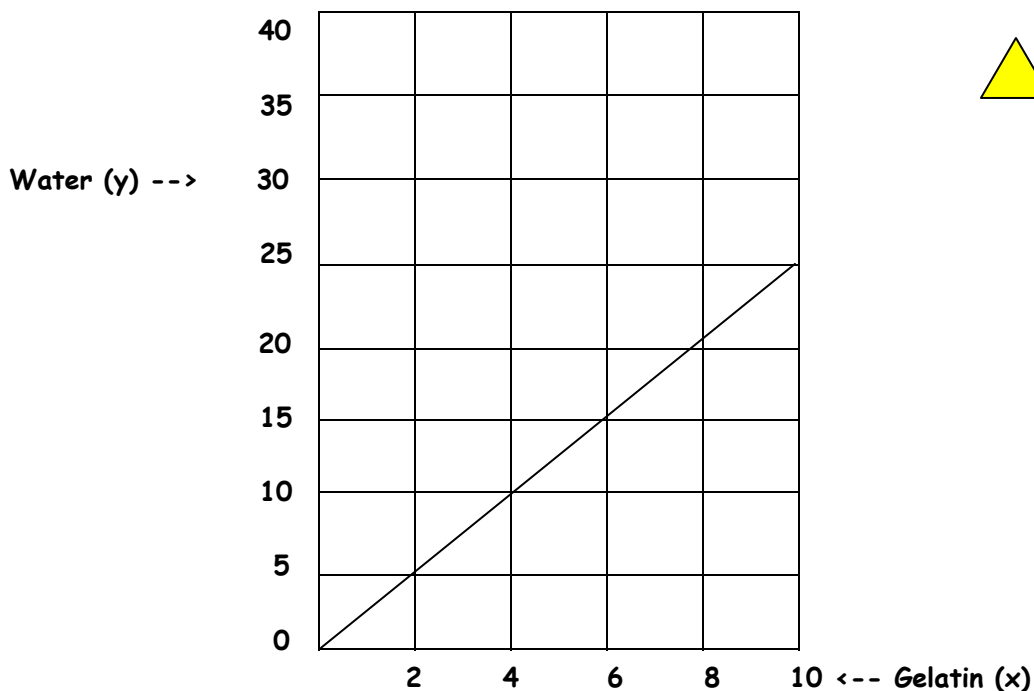


## Graphs of Proportional Relationships



A proportional relationship between two quantities is one in which the two quantities vary directly with one and one other. If one item is doubled, the other related item is also doubled.

Susan mixes 2 tablespoons of gelatin to every 5 tablespoons of water. How can we determine how much gelatin is needed for 35 tablespoons of water?



Tablespoons of Gelatin is always equivalent to 2:5 or  $\frac{2}{5}$   
Tablespoons of Water

Our Problem:  $\frac{2}{5} = \frac{x}{35}$

**TO SOLVE for X:**  
 What goes in to 35 using our water ratio (5 Tbs)?  
 The answer is: 7  
 Times that number by our ratio of gelatin (2 Tbs)  
 Our answer is: 14 Tablespoons of water  
 Our new ratio is  $\frac{14}{35}$   
 Which is equivalent (or in proportion) to  $\frac{2}{5}$