Name _____          Date _____

## Probability of a Chance Event - Step-by-Step Lesson

There are three types of chocolates – White chocolate, Dark chocolate, and Light chocolate.

If the probability of getting a White chocolate is $\frac{4}{10}$ and the probability of getting Dark chocolate is $\frac{2}{5}$, what is the probability of getting Light chocolate?

**Explanation:**

The combined probabilities must equal 1.

$$\frac{4}{10} + \frac{2}{5} + x = 1$$

$$\frac{4+4}{10} + x = 1$$

$$\frac{8}{10} + x = 1$$

$$x = 1 - \frac{8}{10}$$

$$x = \frac{2}{10}$$

$$x = \frac{1}{5}$$

So the probability of Light chocolate must equal to $\frac{1}{5}$ .