**Creating a Proportional Equation from a Graph**

**Step 6: Express your equation in simplest form**

**Step 5: Create your constant of proportionality**

$$\frac{y}{x}=\frac{boxes up}{boxes over}$$

**Step 4: Count your boxes**

Label on your graph with how many boxes up and over

**Step 3: Connect your points with a right triangle.**

**Go up first**, **then over**

**Step 2: Choose two points on the line.**

Choose integer points whenever you can.

Here the two points were chosen:

**(0,0) and (10,4)**

**Step 1: Is it proportional?**

#1 The graph must be a straight line.

#2 The line must go through the origin.

**10**

**4**

$$y=\frac{2}{5}x$$

$$\frac{y}{x}=\frac{4}{10}=\frac{2}{5}$$







