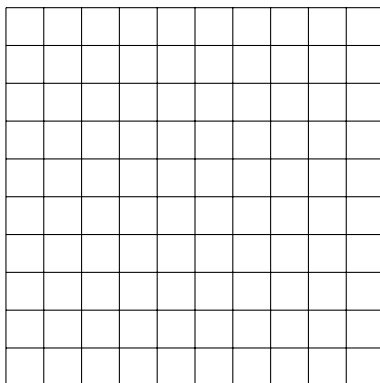# Vectors

Practice Your Understanding

Name: _____

Date: _____

1. What is a vector? Define the three components of a vector in the box below:

2. What are three common ways of writing a vector numerically? Write the different ways in the box below:

3. On the graph below draw a vector $\overrightarrow{A} = 4.5\hat{i} + 3.7\hat{j} + 0\hat{k}$. What is this vector's magnitude? Direction? Angle?

4. What is this vector's magnitude? Direction? Angle? Answer in the box below: