## Who is faster, Sandra or Michael?

Use the data in a ratio table to compare runners. Create a graph using the data from the ratio table to compare two runners speed. With careful comparison, you will be able to determine the speed of the two runners.

## Sandra

Distance (miles) (y)	4	8	12	16	20	24
Tíme (hours) (x)	$\frac{1}{2}$					

## Míchael

Distance (míles) (y)	2	4	6	8	10	12
Tíme (hours) (x)	$\frac{1}{2}$		$1\frac{1}{2}$			

<u>Task</u>: Using unit rate and proportional relationship to determine the speed of two runners.

- 1. Create a graph and plot the coordinates for each runner.
- 2. Determine whether the distance to time for both runners are in proportional relationship. Explain.
- 3. Determine how fast both runners are traveling per hour.
- 4. How long would it take both runners to run 12 miles?
- 5. How far both runners ran in one and half hour?
- 6. What is the constant of proportionality for both runners?