

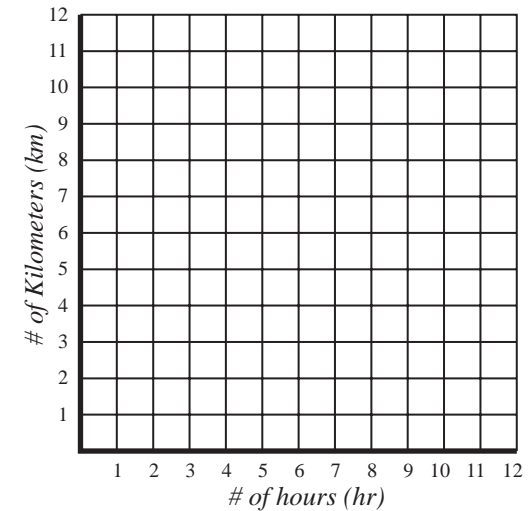
# COUNTDOWN CHALLENGE

## Rise Over Run

The COUNTDOWN teachers entered a 12 kilometer race. Each ran at a different speed. Use the information in the table to graph each teacher's performance. Use a different color for each teacher. Finally, write the equation of each line.

| <i>Teacher</i> | <i>Speed</i><br>(#km/1 hr)     | <i>Starting Point</i><br>(y-intercept) | <i>Equation</i> |
|----------------|--------------------------------|--|-----------------|
| Susan          | $6/1 = \text{rise}/\text{run}$ | 0                                      | $6x + 0$        |
| Shaalein       | $4/1 = \text{rise}/\text{run}$ | 0                                      |                 |
| Mary           | $3/1 = \text{rise}/\text{run}$ | 0                                      |                 |
| Dorothy        | $2/1 = \text{rise}/\text{run}$ | 0                                      |                 |
| Diane          | $1/1 = \text{rise}/\text{run}$ | 0                                      |                 |

**COUNTDOWN TEACHERS**



In order to encourage families to run in the race, there were different starting points for age groups. The children in the Santiago family trained together and all ran at 2 km/hr. Use the information in the table to graph each player's performance.

| <i>Student</i> | <i>Speed</i><br>(slope)        | <i>Starting Point</i><br>(y-intercept) | <i>Equation</i> |
|----------------|--------------------------------|--|-----------------|
| Anna (15)      | $2/1 = \text{rise}/\text{run}$ | 0                                      | $4x + 0$        |
| Tina (13)      | $2/1 = \text{rise}/\text{run}$ | 2                                      |                 |
| Thomas (12)    | $2/1 = \text{rise}/\text{run}$ | 4                                      |                 |
| Angel (10)     | $2/1 = \text{rise}/\text{run}$ | 6                                      |                 |
| Mina (9)       | $2/1 = \text{rise}/\text{run}$ | 8                                      |                 |

**SANTIAGO FAMILY**

