

1. The equation  $C = 12 + 3n$  represents the cost in dollars,  $C$ , for  $n$  baseball caps advertising a walk-a-thon. Which pair of values could represent a point on the graph of this equation? Show your work for each point.

(0, 12)

(6, 30)

(10, 20)

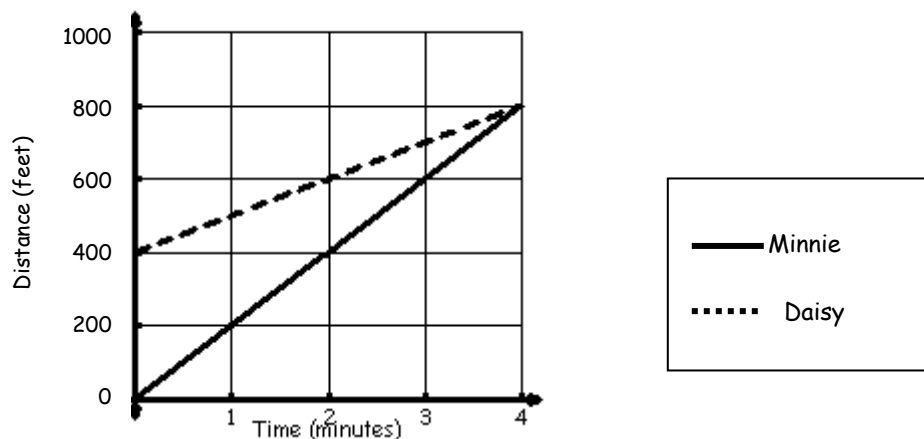
2. The equation  $d = 2.5t + 40$  represents the distance in meters,  $d$ , that a cyclist is from his home after  $t$  seconds. Which pair of values represents a point on the graph of this equation? Show your work for each point.

(12, 70)

(0, 0)

(5, 52.5)

Minnie stops at Daisy's house on her way to school. Daisy's mother says that Daisy left 4 minutes ago. Minnie leaves Daisy's house, running to catch up with Daisy. The graph below shows the distance each girl is from Daisy's house, starting from the time Minnie leaves Daisy's house.



3. In what way is this situation like the pledge plans for Gilbert and Anna from Day 4? In what way is it different?

4. At how many minutes does Minnie catch up with Daisy?
  
5. How far from Daisy's house does Minnie catch up with Daisy?
  
6. Each graph intersects the distance axis (y-axis). What information do these points of intersection with the y-axis give about the problem?
  
7. Which line is steeper? How can you tell from the graph? How is the steepness of each line related to the rate at which the person travels?
  
8. What do you think the graphs would look like if we extended them to show distance and time after the Minnie catches up with Daisy?