## Linear Story Problems

1. Mr. Lischwe and Mr. Allen both had low batteries on their smartphones, and started charging them at 2:00. Even though Mr. Lischwe's phone started with less charge, he bet Mr. Allen that his phone would finish charging faster. At 2:06, Mr. Lischwe's iPhone was at 17%. At 2:14, his iPhone was at 33%. Meanwhile, Mr. Allen's phone charged 1.5% every minute, and at 2:10, his phone was at 34%.

a. How much charge did each of their phones have at 2:00 when they plugged them in?

b. When will each of their phones finish charging? Will Mr. Lischwe win his bet?

- 2. Which points are on the same line that passes through (-4, -3), (20, 15), and (48, 36)? Select all that apply.
- A. (-8, -6)
- B. (-2, -1)
- C. (0, 0)
- D. (4, 3)
- E. (6, 8)

3. Three friends were able to fill six bags of candy while trick or treating for three hours. How many bags of candy could one of the friends fill trick-or-treating for one hour at the same average pace?