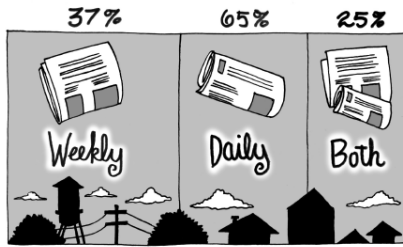Name:_____ Date: _____ Period: _____

Ch. 7 Integrated Math 2B Homework for Week of December 11, 2017

7-107. In a certain small town, 65% of the households subscribe to the daily paper, 37% subscribe to the weekly local paper, and 25% subscribe to both papers. Homework Help ✎

    a. Make a two-way table to represent this data.

    b. If a household is selected at random, what is the probability that it subscribes to at least one of the two papers? Shade these areas in your table.

    c. Charlie's neighbor subscribes to at least one paper. What is the probability that he receives the daily paper?

7-114. Parents keep telling their teens to "turn down the music" or "turn off the computer" when studying. But teens insist that these "distractions" actually help them study better! In order to put this argument to rest, a psychologist studied whether subjects were able to memorize 20 index cards while listening to loud music or studying in silence. The sixty subjects had these results: Homework Help ✎

	Able to memorize	Not able to memorize
Loud music	3	36
Silence	9	12

    a. What is the probability that a randomly chosen subject is able to memorize the index cards?

    b. What is the probability that a music listener memorizes the index cards?

    c. According to the data from this study, is the ability to memorize independent of listening to loud music?