


Name _____ Date _____ Period _____

Ch. 6 Integrated Math 3B Homework Week of April 2, 2018

6-45. A consumer magazine randomly selects 250 of its readers and asks whether their luggage was lost on their last airplane flight. Seven out of the 250 lost their luggage. The consumer magazine conducts a simulation to determine the sample-to-sample variability and concludes that about $3\% \pm 1.7\%$ of all passengers lose their luggage. Make a conjecture about what the number of passengers who lose their luggage might be if the magazine had surveyed 1000 readers instead of 250. [Homework Help](#) 

6-47. Daylight Saving Time was adopted in the U.S. in 1918. During the oil crisis of the 1970s, the Department of Transportation found that Daylight Saving Time decreased national energy usage by about 1 percent compared with standard time. Since then, not only has energy use in the U.S. changed but Daylight Saving Time has also been extended. In 2007 a group of researchers found that Daylight Saving Time decreased national energy usage by 0.2% with a margin of error of 1.5%. If a 1% decrease in energy use will save the state of Indiana \$9 million, what conclusion(s) can you draw from the 2007 study in relation to the state of Indiana? [Homework Help](#) 