1. Brad put 10 crickets in his pet lizard's cage. After one day, Brad’s lizard had eaten 20% of the crickets he had put in the cage. By the end of the next day, the lizard had eaten 25% of the remaining crickets. How many crickets were left in the cage at the end of the second day?

2. A furnace used 40% of the fuel in its tank in the month of March and then used 25% of the remaining fuel in the month of April. At the beginning of March, there were 240 gallons of fuel in the tank. How much fuel (in gallons) was left at the end of April?

3. In Lewis County, there were 2,277 student athletes competing in spring sports in 2014. That was 110% of the number from 2013, which was 90% of the number from the year before. How many student athletes signed up for a spring sport in 2012?
Accelerated 6.3 Homework
4. This year, Benny is 12 years old, and his mom is 48 years old.
   a. What percent of his mom’s age is Benny’s age?
   b. What percent of Benny’s age is his mom’s age?
   c. In two years, what percent of his age will Benny’s mom’s age be at that time?
   d. In 10 years, what percent will Benny’s mom’s age be of his age?
   e. In how many years will Benny be 50% of his mom’s age?
   f. As Benny and his mom get older, Benny thinks that the percent of difference between their ages will decrease as well. Do you agree or disagree? Explain your reasoning.
Accelerated 6.3 Homework

5. This year, Benny is 12 years old. His brother Lenny’s age is 175% of Benny’s age. How old is Lenny?

6. When Benny’s sister Penny is 24, Benny’s age will be 125% of her age.
   a. How old will Benny be then?
   b. If Benny is 12 years old now, how old is Penny now? Explain your reasoning.

7. Benny’s age is currently 200% of his sister Jenny’s age. What percent of Benny’s age will Jenny’s age be in 4 years?