1. Read through the following statements, then answer the questions about them.

   If Will Smith wins an Academy Award, then he will retire from acting.
   Will Smith did not win an Academy Award.
   ∴ He will not retire from acting.

   a. Rewrite the above statements symbolically.

   b. Is the conclusion valid?

2. Read through the following statements, then answer the questions about them.

   If the President resigned, then the Vice-President becomes the President.
   The Vice-President becomes the President.
   ∴ The President resigned.

   a. Rewrite the above statements symbolically.

   b. Is the conclusion valid?

3. Read through the following statements, then answer the questions about them.

   If monkeys can fly, then scarecrows can dance.
   Scarecrows cannot dance.
   ∴ Monkeys cannot fly.

   a. Rewrite the above statements symbolically.

   b. Is the conclusion valid?
4. Read through the following statements, then answer the questions about them.

If the bird is grey, then it is a Mockingbird.
If the bird is a Mockingbird, then it sings like a screeching wild cat.
If I hear a screeching wild cat, then I want to cover my ears.
∴ If the bird is grey, I want to cover my ears.

ea. Rewrite the above statements symbolically.

b. Is the conclusion valid?

5. Two trains left a station at 12 noon traveling in opposite directions. If the first train travels at 40 miles per hour and the second train travels at 60 miles per hour, when will the two trains meet?

6. A train and a plane travel at 300 miles per hour in opposite directions. Which one will circle the earth first?