Math Puzzler #17

Due _____ .

Name _____

Hour _____

Date _____

1. Todd is thinking of a number. The digits are represented by A, B, C, D, E, and F. All of the digits are different. Use the clues to figure out Mary's number.

   ____ ____ ____ ____ ____ ____
    A   B   C   D   E   F

   Clues:
   1. A x C = B
   2. A x D = A
   3. None of the digits is 0
   4. D and E are the only odd numbers
   5. F = A x E
   6. E is less than C

2. A running tracks straight-away is 100 m long. The distance from the inside lane to the outside lane is 10m. If the radius of one of the corners of the inside lane is 25m, how much farther does a person running in the outside lane run than a person running in the inside lane?