Factors and Multiples: End-of-Unit Assessment

1. a. Is 27 a prime number or a composite number? Explain or show your reasoning.

   b. Is 29 a prime number or a composite number? Explain or show your reasoning.

2. Select **all** true statements.

   A. 15 is a multiple of 3.

   B. 16 is a factor of 8.

   C. 80 is a multiple of 4.

   D. The only factor pair of 49 is 1 and 49.

   E. The factor pairs of 12 are 1 and 12, 2 and 6, and 3 and 4.

3. Find **all** factor pairs of 84.

4. Han is playing a card game with friends. The number of cards never changes, but the number of players does.

    a. With 5 players, the cards can be divided equally between the players. Could there be 50 cards? Explain or show your reasoning.

    b. With 3 players, the cards can be divided equally between the players. Could there be 50 cards? Explain or show your reasoning.

    c. With 4 players, the cards can be divided equally between the players. How many cards could there be? Explain or show your reasoning.