

Practice problems for reading logically

1) All of the girls in Mrs. Smith's class are left-handed. Chris is in Mrs. Smith's class. Decide whether each of the following must be true, must be false or may be true.

- A) If Chris is a boy, Chris is right-handed.
- B) If Chris is left-handed, Chris is a girl.
- C) If Chris is a girl, she is right-handed.
- D) If Chris is right-handed, Chris is a boy.

2) Suppose that the sum of three one-digit whole numbers is greater than 20. Decide whether each of the following must be true, must be false or may be true. Convince me that your answer is correct.

- A) Each number is greater than 7.
- B) One number is less than 3.
- C) Two of the numbers are less than 8 and one is greater than 8.
- D) If two are greater than 7, then the other must be less than 7.
- E) If two are less than 7, then the other must be greater than 7.