Setting up an Equation

- 1. Fill in the blanks to calculate the range of the given data sets:
 - **a.** A number increased by 8 is equal to 20. Write the equation: ____ + 8 = 20.
 - **b.** Three times a number plus 5 is equal to 26. Write the equation: $3x + __ = 26$.
 - c. The sum of two consecutive odd numbers is 44. Write the equation: ____ + (____ + 2) = 44.
 - **d.** Five less than twice a number is equal to 15. Write the equation: $2x __ = 15$.
 - e. Sara is 4 years older than twice the age of her younger sister. If her younger sister is y years old, write the equation to represent Sara's age: ____ = 2y + 4.

2. True or False:

- **a.** "The sum of twice a number and 5 is equal to 15" can be represented by the equation 2x + 5 = 15.
- b. "Three less than a number is equal to 8" can be represented by the equation x 3
 = 8.
- **c.** "Five times a number plus 7 is equal to 42" can be represented by the equation 5x + 7 = 42.
- **d.** "Twice the sum of a number and 4 is equal to 16" can be represented by the equation 2(x + 5) = 16.

3. Match the following:-

Column A	Column B
i. Equation: 3(x - 2) = 27	A. Sam's age is three times the age of his younger brother minus
	2, which equals 27. How old is Sam's younger brother?
ii. Equation: 4n - 5 = 19	B. Lisa's age is 5 years less than four times Sarah's age, and it is equal to 19. How old is Sarah?