Today we will use equations to determine specific x-values and y-values on a line.

1. If (4, y) is a solution to the equation y = -x + 3, determine the value of y?

2. If (x, 10) is a solution to the equation y = 3x - 2, determine the value of x?

3. If (x, -4) is a solution to the equation y = $-\dfrac{1}{4}$x + 3, determine the value of x?

4. If (x, -4) is a solution to the equation 4x – 5y = 8, determine the value of x?

5. Determine the range of the function $f(x) = 3x - 5$ when the domain is {-4, 2, 9}?

6. Determine the range of the function $f(x) = x^2 - 8$ when the domain is {-4, -3, -1}?

7. Determine the domain of the function $f(x) = 2x + 1$ when the range is {-3, 9, 15}?

8. Determine the domain of the function $f(x) = 4x + 9$ when the range is {5, 21, 33}?