Bell Ringer - Solve the equation.

$$\frac{3}{2}$$
(3m - 7) = -15

Bell Ringer - Solve the equation.

$$\frac{2}{3} \cdot \frac{3}{2} (3m - 7) = -15 \cdot \frac{2}{3}$$

$$3m - 7 = -10$$

$$+7 + 7$$

$$3m = -3$$

Chapter 12-1 Functions with Square Roots Notes Day 1

Function: A rule that shows a relationship between two quantities.

Example y = x + 3

Here the y-value is three more than the x-value

Domain: the set of x-values in a function; also called the input(s)

Range: the set of y-values in a function; also called the output(s)

Considerations:

- 1) A square root cannot be negative.
- 2) All nonnegative numbers is a possible answer for a domain/range.
- Use a table of values when graphing. Choose easy numbers when taking a square root.

Find the set of domain and range values for each function.

1)
$$y = 7\sqrt{x}$$

Domain: all nonnegative numbers.

x ≥ 0

Range: all nonnegative numbers.

 $y \ge 0$

Find the set of domain and range values for each function.

2)
$$y = \sqrt{x-4}$$

Domain: all numbers greater than or equal to 4

x ≥ 4

Range: all nonnegative numbers

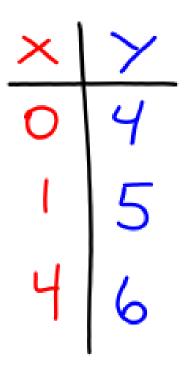
y ≥ 0

Find the set of domain and range values for each function. Create a table of values for graphing the function.

3)
$$y = \sqrt{x} + 4$$

Domain: all nonnegative numbers

Range: all numbers greater than or equal to 4



Find the set of domain and range values for each function. Create a table of values for graphing the function.

Domain:
$$\times \geq \frac{-5}{2}$$