## Activator



$$
f(0)=\frac{-3}{7} \quad \begin{gathered}
\text { Page \#17 } \\
\text { Lesson } 3.5
\end{gathered}
$$

$$
f(1)=2
$$

$$
f(2)-\overline{6} \text { What is the }
$$

Maximum

$$
f(4)=\frac{5}{2} \quad \text { (top)? }
$$

$$
f(6)=-3
$$

# Today’s Objective 

 Lesson 3.5Students will be able to determine the domain and range of a function.


# Today's New Vocab (1 of 4) 

 Can two inequalities be put together?$x \geq-6 \quad x \leq 2$ greater less
than -6 than 2
$-6 \leq x \leq 2$
than 2 It means "in between"
Yes
$X$ is in between -6 and 2.

# Today's New Vocab (2 of 4) 

 What is the Domain of the function?

Domain means "how wide"
Domain means only $X$ values
This is a compound inequality which means "in between"

$$
-6 \leq x \leq 2
$$

Left Most is in Right Most
$(-6,0)$ between $(2,-4)$

## Today's New Vocab (3 of 4) What is the Range of the function?



# Today’s New Vocab (4 of 4) 

Determine if the graph is a function. No, it is NOT Write the coordinates of the circled points.

$$
(-4,1) \text { and }(-4,7)
$$



It is NOT a function. Why? The input $x=-4$ is repeated.

| $\mathbf{X}$ | $\mathbf{G}(\mathbf{x})$ |
| :---: | :---: |
| -4 | 1 |
| -4 | 7 |

## Work Period

What is the domain $(x)$ and range $(y)$ of the function? Page \#19


# Group Work Questions 

Pages 20-19
Lesson 3.5

Directions: All groups, please do all of the questions. Use your notes from last class to help you. [Ask 2 people before you ask me.] Last time, we did Lesson 3.5 Notes.
$2^{\text {nd }}$ Stop @ 9:03 $3^{\text {rd }}$ Stop @ 10:06
$8^{\text {th }}$ Stop @ 2:20
*One person from each group will present one question.

## Exit Ticket

What is the domain $(x)$ and range $(y)$ of the function?


