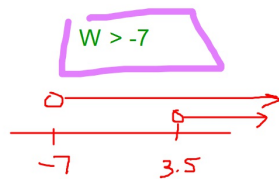


State the solution to this compound inequality as a single statement if possible.

$$\begin{aligned} 2W - 3 &> 4 \\ +3 &+3 \\ \hline 2W &> 7 \\ \hline W &> 3.5 \end{aligned}$$

OR

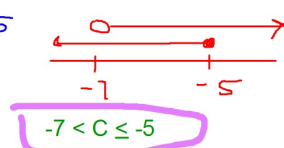
$$\begin{aligned} 5 - W &< 12 \\ -5 &-5 \\ \hline -W &< 7 \\ \hline -1 &-1 \\ \hline W &> -7 \end{aligned}$$



$$\begin{aligned} C + 11 &\leq 6 \\ -11 &-11 \\ \hline C &\leq -5 \end{aligned}$$

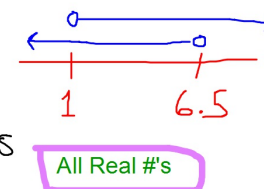
AND

$$\begin{aligned} 2C + 15 &> 1 - 15 \\ -15 &-15 \\ \hline 2C &> -14 \\ \hline C &> -7 \end{aligned}$$

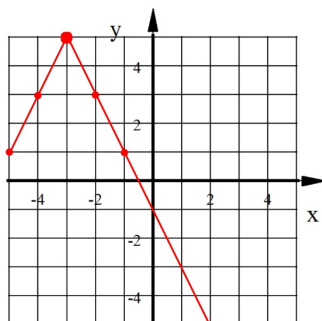


$$\begin{aligned} 9G + 2 &> 11 \\ -2 &-2 \\ \hline 9G &> 9 \\ \hline G &> 1 \end{aligned}$$

$$\begin{aligned} 16 - 2G &> 3 \\ -16 &-16 \\ \hline -2G &> -13 \\ \hline -2 &-2 \\ \hline G &< 6.5 \end{aligned}$$



Graph this equation.



$$y = -2|x + 3| + 5$$

opens down

2 times taller
(sides have a
slope of 2 and -2)

shift
3 units
left

shift 5 units up

Vertex is (-3, 5)

Four consecutive odd numbers have a sum of -104.
Write and solve an equation to find these four numbers.

$$x + x + 2 + x + 4 + x + 6 = -104$$

$$4x + 12 = -104$$

$$\begin{aligned} -29 \\ -27 \\ -25 \\ -23 \end{aligned}$$

$$\begin{aligned} 4x &= -116 \\ \hline 4 & \\ x &= -29 \end{aligned}$$

Sec 2-1: Relations and Functions

Sec 2-1: Relations and Functions

Relation

A set of ordered pairs
(a bunch of points)

Function

A kind of relation
where each x is paired
with one and only one
 y .

Each input produces
only one output

Which of the following is correct?

~~1. Every Relation is a Function~~
Every Rectangle is a Square

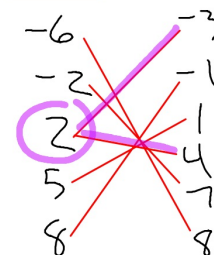
2. Every Function is a Relation
Every Square is a Rectangle

Mapping Diagram (5,1), (-2, 7), (2, -3), (8, -1), (2, 4), (-6, 8)

1. List the Domain and Range

2. Connect each member of the Domain with its corresponding value in the Range.

Domain: Range:



Is this Relation a function?

If any domain value
has more than one line
coming from it then the
relation is NOT a function

since the domain value 2 connects to both range
values -3 and 4 this relation is NOT a function