Warm-Up *Let statement*   February 12, 2020

1. Define a variable and write an inequality to represent the situation.

Let "w" represent weight
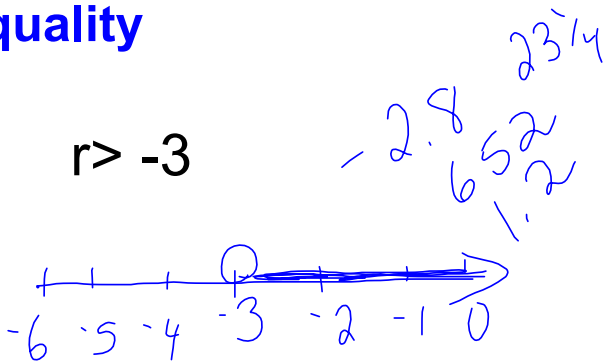
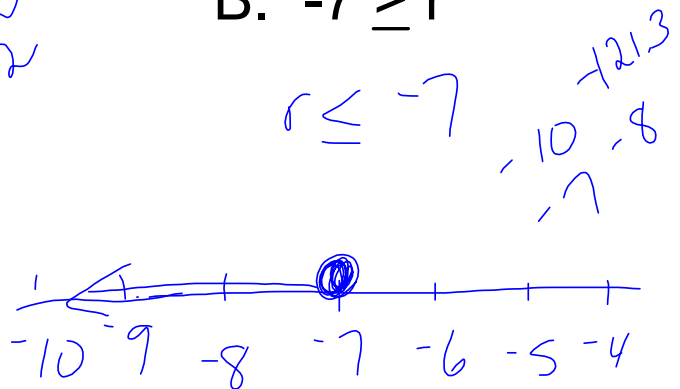In Canada, a child under 23 kg must ride in a car seat.

$w < 23$

2.

A.   Graph each inequality on a number line
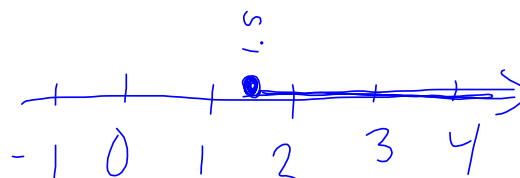**B.   Write 4 numbers that are solution to the inequality**

A.   r> -3

-2.8
$23 \frac{1}{4}$
$65 \frac{2}{2}$
1.2

$-6 \ -5 \ -4 \ -3 \ -2 \ -1 \ 0$

B. -7 ≥ r

$r \leq -7$

$-12 \frac{1}{3}$
-10
-8
-7

$-10 \ -9 \ -8 \ -7 \ -6 \ -5 \ -4$

C.   1.5 ≤ a

$1\frac{1}{2} = 1.5$

$a \geq 1.5$

$-1 \ 0 \ 1 \ 2 \ 3 \ 4$

Write the inequality:
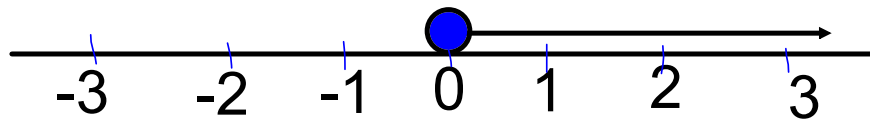
$$t \geq 0$$

1. Is the statement true? **yes or no**

   a)   -5>-4   b) 1.2 < 1.21

        (circled) NO

                                    1.20

                                    yes

2. Write the inequality for; $-1<x$

   a) -1 is less than X $x > -1$

   b) x is greater than -2 $x > -2$

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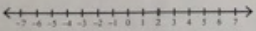3. a) $5 < 8$ yes

3, 4, 5, $\rightarrow$ $x < --2$

a) $0 < -2$ NO

8 [a, c] Let statement

Answers
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*__**9 [sketch the number line]** __*
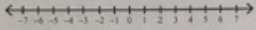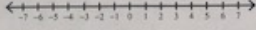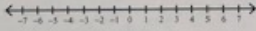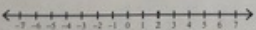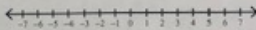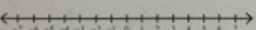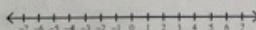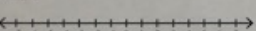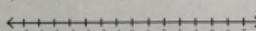
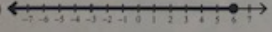**12 [all], 13 [a,c,e]**
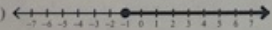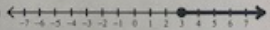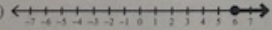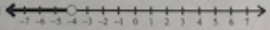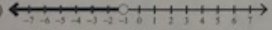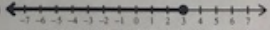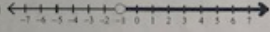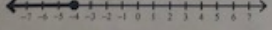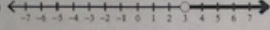
Worksheet...all questions and you can mark
on the sheet.
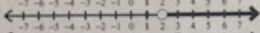
Assignment   Date_____ Period_____

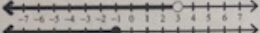**Draw a graph for each inequality.**

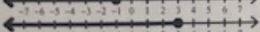1) $a \geq -4$

2) $a \geq -1$

3) $x > 2$

4) $x > 6$

5) $p < 3$

6) $x < 6$

7) $n \leq -1$

8) $n \leq -4$

9) $r \leq 3$

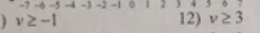10) $n > -4$

Write an inequality for each graph.
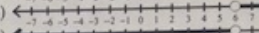
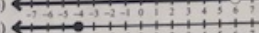11)

12)

13)

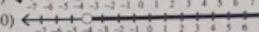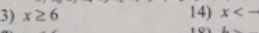14)

15)

16)

17)

18)

19)

20)

3)
4)
5)
6)
7)
8)
9)
10)

11) $v \geq -1$
12) $v \geq 3$
13) $x \geq 6$
14) $x < -4$

15) $m < -1$
16) $k \leq 3$
17) $x \leq 6$
18) $b > -1$

19) $x \leq -4$
20) $b > 3$