

warm up back of 19

$$2 \bullet 4 - (8 - 4)^2 + 7^2 - 3$$

$$(15 \div 3)^2 + 13 - 1$$

$$3x - 2 = 10$$

$$\frac{x}{4} - 1 = 7$$

$$4\left(\frac{x}{4}\right) = (8)4$$

$$x = 32$$

Find the graph of the solution set of any inequality below in the corresponding column of graphs. Notice the letter next to it. Write this letter in each box that contains the number of that exercise. Keep working and you will discover the answer to the title question.



① $x < 1$	(H)	⑩ $x < -1$	(O)
② $x \leq 1$	(Y)	⑪ $-1 < x$	(U)
③ $x > 1$	(S)	⑫ $3 \geq x$	(M)
④ $x \geq 1$	(I)	⑬ $x < 3$	(F)
⑤ $x \neq 1$	(D)	⑭ $x \neq 0$	(E)
⑥ $x < -2$	(L)	⑮ $0 \leq x$	(P)
⑦ $x > -2$	(R)	⑯ $0 \geq x$	(W)
⑧ $x \leq -2$	(G)	⑰ $0 < x$	(J)
⑨ $x \geq -2$	(A)	⑱ $0 > x$	(N)

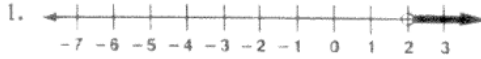
A E W O N D E R E D N A Y A E W A S F E E L I N G S O S U M P Y

Name _____ Date _____

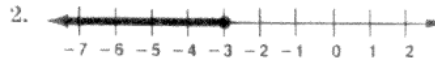
Practice Worksheet 8-2

Graphing Inequalities

Write an inequality that describes each graph.



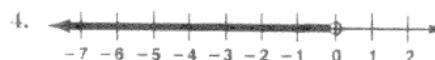
$x > 2$



$x \leq -3$



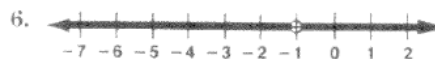
$x > -1$



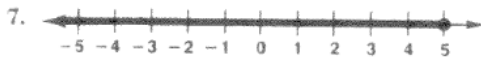
$x < 0$



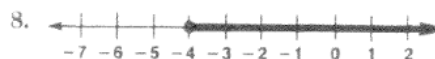
$x \geq 4$



$x \leq -1$



$x \leq 5$



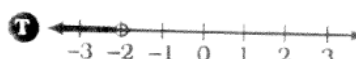
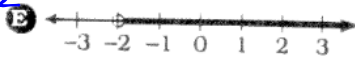
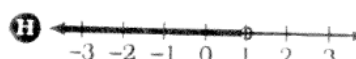
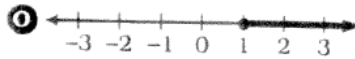
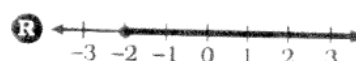
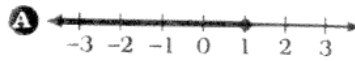
$x \geq -4$

In Exercises 1-6, match the inequality with its graph.

- 1 $x < 1$
- 2 $x \leq 1$
- 3 $x > -2$
- 4 $x \geq -2$
- 5 $-2 > x$
- 6 $1 \leq x$

H
A
T
R
O

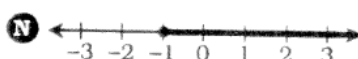
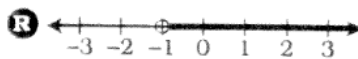
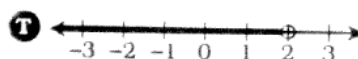
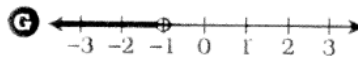
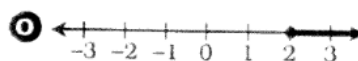
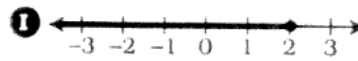
$x < -2$
 $x \geq 1$



In Exercises 1-6, match the inequality with its graph.

- 1 $x < 2$
- 2 $x \leq 2$
- 3 $x > -1$
- 4 $x \geq -1$
- 5 $-1 > x$
- 6 $2 \leq x$

T
O
R
O



Solve Inequalities: P.22

* when you multiply or divide by a negative number, REVERSE the INEQUALITY

$$\begin{array}{r} -3x + 2 \leq 14 \\ \hline -2 \quad -2 \\ \hline -3x \leq 12 \\ \hline -3 \quad -3 \\ \hline \end{array}$$

$$x \geq -4 \quad \checkmark$$

$$\begin{array}{l} -3(6) + 2 \leq 14 \\ -18 + 2 \leq 14 \\ -16 \leq 14 \end{array}$$

check your
answer

Property sort

Property Kahoot

Order of Operations Kahoot

IXL 6th Grade

Graph inequalities, solve inequalities

AA.1, AA.2, AA.3, AA.5