Name: $\qquad$ Date: $\qquad$

| Learning Goal 6.2 | I can solve inequalities. |
| :--- | :--- |



Example Define a variable and write an inequality for each situation.

let $S=\begin{aligned} & \text { your } \\ & \text { speed }\end{aligned}$
$S \leq 55 \mathrm{~km} / \mathrm{h}$


$$
h \geqslant 102 \mathrm{~cm}
$$



$$
t<4^{\circ} \mathrm{C}
$$


$a=$ your

Example Is each number a solution of the inequality $b \geq-4$ ? Justify your answers.
a. -8
b. -3.5
c. -4
d. -4.5
e. 0
is $-8 \geqslant-4$
$-3.5 \geqslant-4$ false true
$-4 \geqslant-4$ true
$-4.5 \geqslant-4$ take

Example Graph each inequality on a number line. Write 4 numbers that are solutions of the inequality.
a. $-2 \geq x$
b. $t>-5$

$x=-3,-2,-10000,-9 . \overline{9}$

$t=-4.9,-4,0,5$
c. $0.5 \leq a$
d. $p<-8.25$


$$
a=1,2,0.5,0.51
$$

$$
P=-8.26,-8.5,-10,-1000000
$$

