Warm up:

Solve.

$$1\frac{4}{5} < 6 - \frac{2}{3}a$$

$1\frac{4}{5} - 6$

$\frac{9}{5} - \frac{6}{1}$

$\frac{9}{5} - \frac{30}{5}$

$-\frac{21}{5}$

$9 - 30$

$9 + (-30) = -21$

$-6 \quad -6$

$-\frac{3}{2}\left(-\frac{21}{5}\right) > \left(-\frac{2}{3}a\right)\left(-\frac{3}{2}\right)$

$6\frac{3}{10} > a$

$6\frac{3}{10} > a$

HW Solutions

(1) $a + 720 > 5000$

$-720 \quad -720$

$a > 4280$

more than $4280

② $35 + 8t \leq 80$

$-35 \quad -35$

$8t \leq 45$

$\frac{8t}{8} \leq \frac{45}{8}$

$t \leq 5.625$

5 t-shirts or less

③ $2400 + 0.05s \geq 4000$

$-2400 \qquad -2400$

$0.05s \geq 1600$

$\frac{0.05s}{0.05} \geq \frac{1600}{0.05}$

$s \geq 32000$

$0.05\overline{)1600}$

$5\overline{)160000}$

32000

-15

10

-10

0

at least $32000 in sales

④ $35 + 0.15m < 89$

$-35 \qquad -35$

$0.15m < 54$

$\frac{0.15m}{0.15} < \frac{54}{0.15}$

$m < 360$

$0.15\overline{)54}$ → $15\overline{)5400}$

360

$-45\downarrow$

90

-90

0

less than 360 mi

March 3, 2022

Showdown

Solve and graph.

$$9 \leq -2x + 7$$

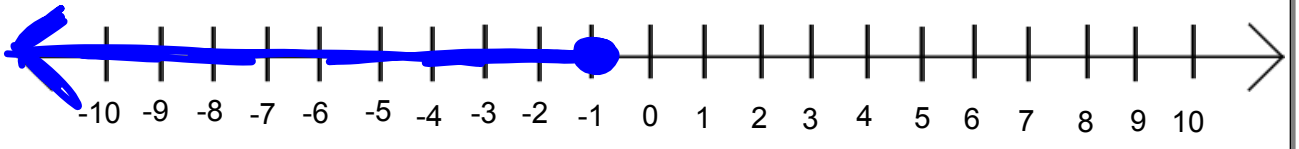
$-7 \quad -7$

$2 \leq -2x$

$\frac{2}{-2} \leq \frac{-2x}{-2}$

$-1 \geq x$

$x \leq -1$



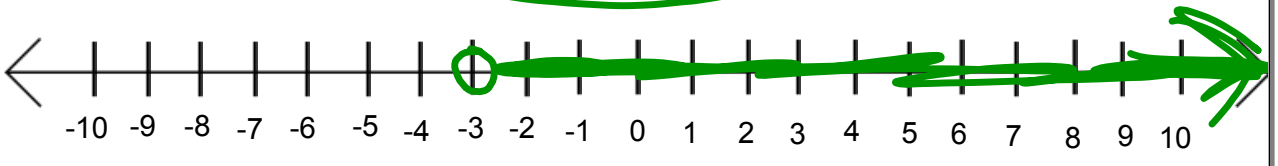
Solve and graph.

$$2x - 9 > -15$$

$+9 \quad +9$

$$\frac{2x}{2} > \frac{-6}{2}$$

$$x > -3$$



Write an inequality to solve the problem.

Chris bought a rotisserie chicken for $8, and some Bags of frozen vegetables for $3 each. How many bags of frozen vegetables can he buy if he has $29?

$8 + 3v \leq 29$

$-8 \quad -8$

$3v \leq 21$

$\frac{3v}{3} \leq \frac{21}{3}$

$v \leq 7$

at most 7 bags