HW review P. 367 #39

> 2 - length of a piece W = width of a piece

#36 p. 361 53.34 3min. 41.1 see 56.38 180 sec + 57.46 221. | sec 167.18 **一167.18** Fastest: 53.18 Av : 53.92 5 lowest: 61.02

inegoalites.

$$[6.3]$$
 $3y+7 < 17-7$

I Add or subtract H's to isolate variable

3y \ 10 2. Multiply or divide by the coefficient of the variable

$$y \leq \frac{10}{3}$$

$$5x-7 \leq 3(4x+2)$$

$$5x - 7 \le 12x + -6$$

 $-12x + 7$

$$\frac{-7x}{-7} \leq \frac{1}{-7}$$

$$x > \frac{1}{7}$$

1. Distribute

17.4
$$m + 14 - 2m \le 2(m + 7)$$

 $4m+4 \longrightarrow m \le 2m+14$
 $2m-14-2m = -2m-14$
 $0 \le 0 \le 0$

19.
$$4(3-2x) > 2(6-4x)$$
 $12-2x > 12-2x$
 $12+3x$
 $0>0$
 $0>0$

21.
$$-4n + 11 < -4(n + 6)$$

 $-4x + 11 < -4x + -24$
 $+4x + 24 + 4x + 24$
 $35 < 0$ No. Sol.

23.
$$2m + 10 - 7m \le 5(4 - m)$$

 $-5m + 10 \le 20 - 5m$
 $+5m - 10 - 10 + 5m$
 $0 \le 10$ true for all m

18.
$$-2(n-3) \ge 1 - 2n + 5$$

20.
$$2(5-a) > 4a + 13 - 6a$$

22.
$$3(5-6x) \le 2(11-9x)$$

24.
$$6(1-2n) \le 5-12n$$

21.
$$6x + 2 \le 5x + 2$$

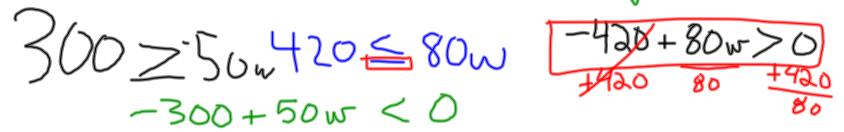
 $-5x - 2 - 5x - 2$
 $x \le 6$

23.
$$2x - 8 + 3x \ge 5x - 4$$
 $5x - 8 \ge 5x - 4$
 $-5x + 8 = -5x + 8$
 $0 \ge 4$

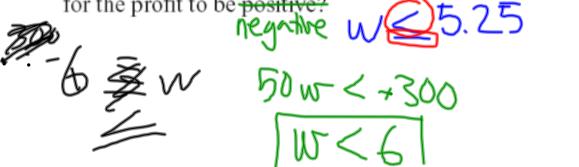
25.
$$9a - 6a + 1 \le 1 + 3a$$

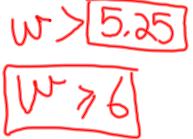
 $3a+1 \le 1+3a$
the first a

- **30.** Weaving A weaver spends \$420 on supplies to make wall hangings and plans to sell the wall hangings for \$80 each.
 - a. Write an inequality that gives the possible numbers w of wall hangings the weaver needs to sell in order for the profit to be positive. The gative



b. What are the possible numbers of wall hangings the weaver needs to sell in order for the profit to be positive?





Homework:

p. 372 4-30 (even), 34,37,38