

GRADUATION

$x$ : # of grads  
 $y$ : # of guests

$$\cancel{x \geq 0} \quad x \geq 40 \text{ (1)}$$

$$y \geq 0 \text{ (2)}$$

$$2x \geq y \text{ (3)}$$

$$x + y \geq 50 \text{ (4)}$$

$$x + y \leq 150 \text{ (5)}$$

~~$$P = 55x + 75y$$~~

Owner:

$$P = 0.25(55x) + 0.65(75y)$$

$$P = 13.75x + 48.75y$$

School:

$$P = 0.75(55x) + 0.35(75y)$$

$$P = 41.25x + 26.25y$$

