You are going to Wheeler's first home football game. A ticket is \$6 and then you want to buy some hot dogs and drinks. Hot dogs are \$3 and drinks are \$2. You have \$30 to spend at the game.

Q1: Write an inequality that represents your situation. Use <u>"x"</u> for hot dogs and <u>"v"</u> for drinks.

$$\frac{6+3x+2y}{5mod} \leq 30$$

Q2. If you bought 3 hot dogs, how many drinks could you buy? How much money would you have left over?

6+3(3)+2y = 30
$$\frac{2}{3}$$
 $\frac{1}{3}$ $\frac{1}{3}$

Q3. If you bought 5 drinks, how many hot dogs could you buy? How

much money would you have left over?
$$6+3\times +2(5) \le 30$$
 $3\times \le 14$ $3\times \le 14$ $3\times \le 14$ $3\times \le 16+12+10$ $16+3\times \le 30$ $16+3\times$

Q4: Solve your inequality for y.

Graph your inequality on the coordinate plane.

coordinate plane.
$$y = -\frac{3}{2}x + 12$$
 $3x + 2y = 3x + 2y = 3x + 2y = 3x + 24$ $3x + 2y = 3x + 24$

Q5. Based on your graph, what are 2 situations that would use all of your money? Shot doas drinks

2 hot dogs, 9 drinks

Q6. What is the maximum number of hot dogs you could buy?

Q7: What is the maximum number of drinks you could buy?

