

Writing Linear Inequalities

| Translating Verbal Phrases | |
|------------------------------|--|
| Less than < | |
| Greater than > | |
| Less than or equal \leq | At most, no more than, no greater than, maximum, up to, at the very most |
| Greater than or equal \geq | At least, no less than, minimum, beginning at, at the very least |

Example 1:

The cost of a birthday party at Classic Boon is \$200 plus \$4 per person. The cost for Fletcher's party can be no more than \$300. How many people can come to his party?

$$4x + 200 \leq 300$$

Write the inequality.

$$4x + 200 \leq 300$$

$$4x \leq 100$$

Solve the inequality.

$$x \leq 25$$

Fletcher can have at most 25 people attend his party.