Inequalities and Interval Notations

Objectives:

- Translating to inequalities
- Expressing inequalities in interval notations

Exercises:

1. Translate to an inequality.
   a. Charles is at least 18 years old.

   b. Las Vegas is no more than 300 miles.

   c. The movie is between 60 and 150 minutes.

   d. John scored more than 75 points on the exam.

   e. Angela has at least $75.

2. What is the difference between at most and less than?

3. Write one number that makes the compound inequality true.
   a. $3 < \square < 6$
   b. $5 \leq \square < 6$
   c. $2.14 < \square < 2.15$
   d. $-2 \leq \square \leq -2$
   e. $-2.5 < \square < -2$
   f. $0.234 < \square \leq 0.25$

4. Fill in the missing information with an equivalent expression

	English phrase	Inequality	Interval Notation	Number Line
a.	To get a C, you must receive at least 70% but less than 80%			
b.		$14 \leq x$		
c.			(55, 95)	
d.			[-2, 2]	