

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.			$[-2, 2]$	