3.2 Inequalities
-C- Solving inequalities in a given domain

- Recall: $\mathbb{N} \subseteq \mathbb{Z} \subseteq \mathbb{Q} \subseteq \mathbb{R}$

Domain	Description of Solution Set	Solution Set
$\mathbb{R}$		
$\mathbb{Z}$		
$\mathbb{N}$		

1

Do Activity 7 Page 84

a) $x + 1 \leq 4$

1. If $x \in \mathbb{R}$:

2. If $x \in \mathbb{Z}$:

3. If $x \in \mathbb{N}$

b) $-3x > 6$

1. If $x \in \mathbb{R}$:

2. If $x \in \mathbb{Z}$:

3. If $x \in \mathbb{N}$
    no solution on N.L

2

16) The length of a rectangular field measures 10 m more than its width. The perimeter of the field is more than 80 m but less than 100 m. In what interval will the width of the field be?

3

18) A taxi driver charges an initial fee of $1.25 and then $0.75 per km traveled. In what interval is the distance traveled if the cost of the trip is more than $11 but less than $14?

4

Practice:
W.S. 3.2-C- Solving in a domain

5