Section 1.2: cont'd

Evil questions: True or False?

not a set → $2 \subseteq N$ **F**

$\{2\} \subseteq N$ Ⓣ

$2 \in N$

$N \in Z$ **F**

$(2,3) \subseteq Z$ **F**

not a set
- brackets are wrong

use $\subset$, $\subseteq$, and $=$ to compare <u>two</u> <u>sets</u>

use $\in$ to compare objects within a set to the set itself

___ $\in$ ___

↑ numbers ↑ set of numbers
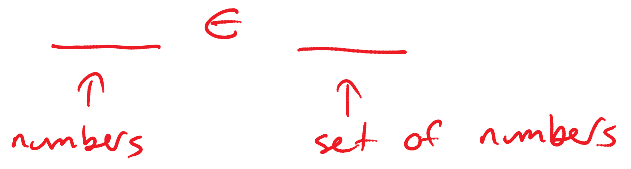
digression: will not be tested

$(2,3) \in \{ (2,3), (3,4) \}$ **T**

$N \in \{ \phi, N, Z \}$ **T**

non-evil questions: True or False?

non-evil questions: True or False !

$$-3 \in \mathbb{Z} \qquad T$$

$$0 \in \mathbb{Z} \qquad T$$

$$\{-3\} \subseteq \mathbb{N} \qquad F$$

$$\{-3\} \subseteq \mathbb{Z} \qquad T$$

$$\{-3\} \not\subseteq \mathbb{N} \qquad T$$