

### 0.0.1 Timeunit To Number of Seconds

The operation *toSeconds* will return the number of seconds corresponding to the input *Timeunit*

$$Timeunit ::= second \mid minute \mid hour \mid day \mid week \mid month \mid year$$

such that the following schema defines *toSeconds*

$ToSeconds[Timeunit]$	_____
$t? : Timeunit$	
$toSeconds\_ : Timeunit \rightarrow \mathbb{N}$	
$toSeconds(t?) = 1 \iff t? = second$	
$toSeconds(t?) = 60 \iff t? = minute$	
$toSeconds(t?) = 3600 \iff t? = hour$	
$toSeconds(t?) = 86400 \iff t? = day$	
$toSeconds(t?) = 604800 \iff t? = week$	
$toSeconds(t?) = 2629743 \iff t? = month$	
$toSeconds(t?) = 31556926 \iff t? = year$	