Unbalanced Recall Experiment

To calculate the **Mean**, add up all the individual values and divide by the number of values e.g. Reinforcement[None]: Mean = 251/11 = 22.8182

	Isolation Time			
Reinforcement	20 min	40 min	60 min	Mean
None	18 24 26 20	35 31 26 30	8 14 19	22.8182
Verbal	19 17 23	27 28 23 24	36 30 28 32	26.0909
Mean	21.0	28.0	23.8571	24.4545

To calculate the **LS Mean**, add up the cell means and divide by the number of cells e.g. Reinforcement[None]: LS Mean = 61.1667/3 = 22.0556.

	Isolation Time			
Reinforcement	20 min	40 min	60 min	LS Mean
None	22.0	30.5	13.6667	22.0556
Verbal	19.6667	25.5	31.5	25.5556
LS Mean	20.8333	28.0	22.5833	23.8056

Use LS Means, rather than Means, when calculating **Estimated Effects**.

Reinforcement[None]: 22.05556 – 23.8056 = –1.75

Isolation Time[20]: 20.8333 – 23.8056 = –2.9722
Isolation Time[40]: 28.0000 – 23.8056 = +4.1944

Reinforcement[None]*Isolation Time[20]: 22.0 – (–1.75) – (–2.9722) – 23.8056 = 2.9167
Reinforcement[None]*Isolation Time[40]: 30.5 – (–1.75) – (+4.1944) – 23.8056 = 4.25