

Rather than calculating over the raw means which are:

Water Group = 4.82

Double Espresso Group = 9.02

Single Espresso Group = 6.69

```
> describeBy(cond$Ability, group = cond$Condition)
```

```
Descriptive statistics by group
```

```
group: Double Espresso
```

	vars	n	mean	sd	median	trimmed	mad	min	max	range	skew	kurtosis	se
X1	1	15	9.02	1.19	9.01	9.07	0.73	6.24	11.07	4.83	-0.26	0.16	0.31

```
group: Single Espresso
```

	vars	n	mean	sd	median	trimmed	mad	min	max	range	skew	kurtosis	se
X1	1	15	6.69	0.98	6.37	6.63	0.78	5.25	8.88	3.63	0.69	-0.53	0.25

```
group: Water
```

	vars	n	mean	sd	median	trimmed	mad	min	max	range	skew	kurtosis	se
X1	1	15	4.82	1.16	4.75	4.82	0.8	2.53	7.09	4.56	0.03	-0.57	0.3

The calculation is performed over the *adjusted* means (which take into consideration the influence of the covariate):

Water Group = 7.33

Double Espresso Group = 6.32

Single Espresso Group = 6.87

```
> emmeans(model_ancova, pairwise ~ Condition, adjust = "none")
```

```
$emmeans
```

Condition	emmean	SE	df	lower.CL	upper.CL
Double Espresso	6.319464	0.4152816	41	5.480786	7.158142
Single Espresso	6.871614	0.1934303	41	6.480974	7.262255
Water	7.327960	0.3931110	41	6.534056	8.121864

```
Confidence level used: 0.95
```