

t-tests in R

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Single Sample Question: Does the distance from home differ from a mean of 27 miles?

```
singleSample <- t.test(EmployeeAttrition$DistanceFromHome, mu=27)
print(singleSample)
```

Independent t-test Question: Does the distance from home differ between those who left the company and those who didn't? (Attrition variable)

```
Independent <- t.test(EmployeeAttrition$DistanceFromHome ~ EmployeeAttrition$Attrition)
print(Independent)
```

#Dependent t-test Question: Does your salary increase over time?

```
Name <- c("Bob", "Bob", "Cyrus", "Cyrus", "Randy", "Randy", "James", "James")
Salary <- c(12000, 75000, 56000, 83000, 12000, 25000, 46000, 72000)
Year <- c("2010", "2020", "2010", "2020", "2010", "2020", "2010", "2020")
Salaries <- data.frame(Name, Salary, Year)
```

```
Dependent <- t.test(Salaries$Salary ~ Salaries$Year, paired=TRUE)
print(Dependent)
```

```
Dependent <- t.test(Salary ~ Year, paired=TRUE)
print(Dependent)
```

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