Stats & Probability Class 3

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Probability Exercises

```r
age <- c(3,5,6,8,10,3,6,8,14)
weight <- c(14,17,19,23,32,12,20,26,40)
```

Permutations

```r
perm <- function(n,k) factorial(n)/factorial(n-k)
perm(7,3)
```

```
## [1] 210
```

Combinations

```r
(people <- letters[1:3])
```

```
## [1] "a" "b" "c"
```

```r
n <- length(people)
k <-2
combn(people, k)
```

```
##      [,1] [,2] [,3]
## [1,] "a"  "a"  "b"
## [2,] "b"  "c"  "c"
```

```r
choose(3,2)
```

```
## [1] 3
```