class 17

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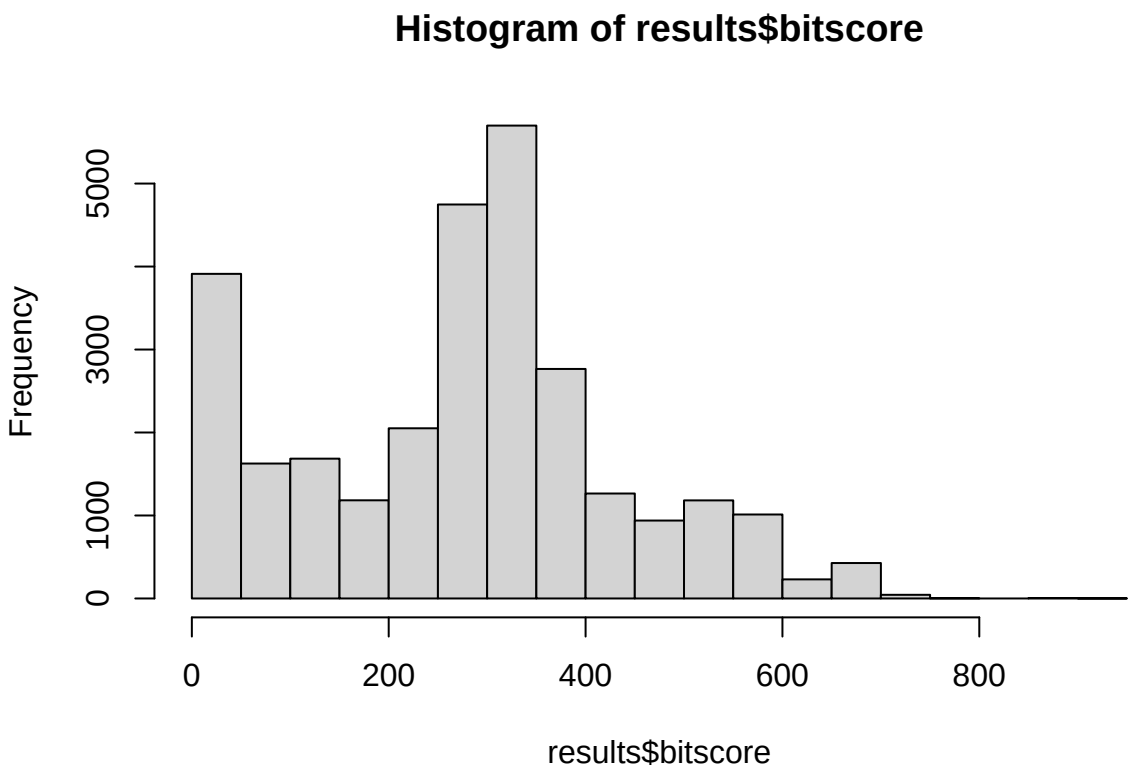
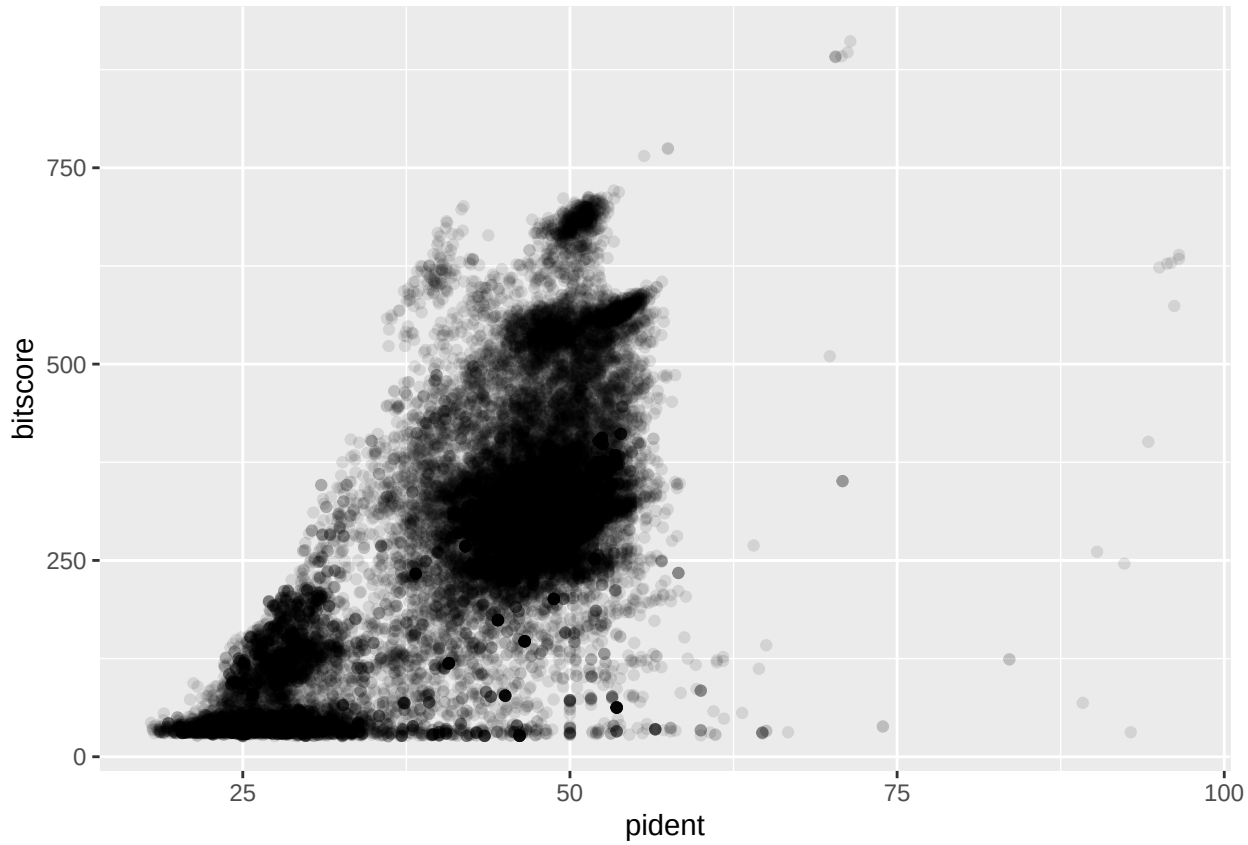
```
col_names<- c("qseqid", "sseqid", "pident", "length", "mismatch", "gapopen", "qstart", "qend", "sstart"

results<-read.delim("results.tsv", col.names = col_names)
```

Make a histogram of the $bitscore values. You may want to set the optional breaks to be a larger number (e.g. breaks=30).

```
hist(results$bitscore, breaks=30)
```




```
library(ggplot2)
ggplot(results, aes(pident, bitscore)) + geom_point(alpha=0.1)
```




```
ggplot(results, aes((results$pident * (results$qend - results$qstart)), bitscore)) + geom_point(alpha=0
```

```
## Warning: Use of `results$pident` is discouraged.
## i Use `pident` instead.
```

```
## Warning: Use of `results$qend` is discouraged.
## i Use `qend` instead.
```

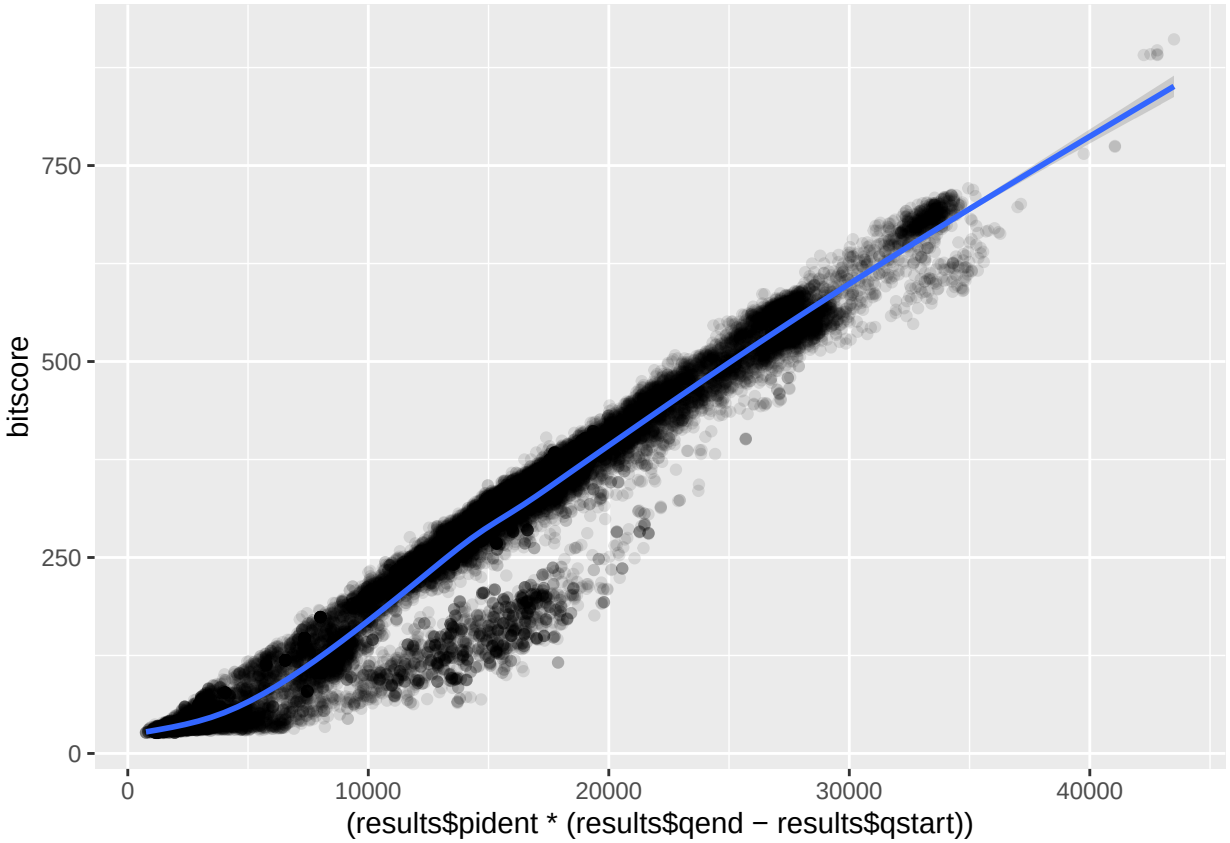
```
## Warning: Use of `results$qstart` is discouraged.
## i Use `qstart` instead.
```

```
## Warning: Use of `results$pident` is discouraged.
## i Use `pident` instead.
```

```
## Warning: Use of `results$qend` is discouraged.
## i Use `qend` instead.
```

```
## Warning: Use of `results$qstart` is discouraged.
## i Use `qstart` instead.
```

```
## `geom_smooth()` using method = 'gam' and formula = 'y ~ s(x, bs = "cs")'
```


bitscore
750
500
250
0
0
10000
20000
30000
40000
(results$pident * (results$qend − results$qstart))