Easy

E1

```
sum(samples<.2)/le4
```

```
[1] 4e-04
```

E2

```
sum(samples>.8)/le4
```

```
[1] 0.1116
```

E3

```
sum(samples > .2 & samples < .8)/le4</pre>
```

```
[1] 0.888
```

E4

```
quantile(samples, .2)
```

```
20%
0.5185185
```

E5

```
quantile(samples, .8)
```

```
80%
0.7557558
```

E6

```
library(rethinking)
HPDI(samples, .66)
```

E7

```
quantile(samples, c(.17, .83))
```

```
17% 83%
0.5025025 0.7697698
```