



R Code for Examples in the book
“Statistics: The Art and Science of Learning from Data”
by Agresti, Franklin and Klingenberg, 5th edition

Chapter 6

Example 10: Students Who Get B – Using z-Scores for Interval Probabilities

To find the percentage of students that earn a B

```
pnorm(90, mean = 83, sd = 5) - pnorm(80, mean = 83, sd = 5)
```

```
## [1] 0.6449902
```

You can also use z-scores to compute the same percentage

```
z_90 <- (90 - 83) / 5
```

```
z_80 <- (80 - 83) / 5
```

```
pnorm(z_90) - pnorm(z_80)
```

```
## [1] 0.6449902
```