**Exercise 1**

Answer: The shaded area for z=0.58 is 0.2190 (21.9 percent)

**Exercise2**

Answer: (1) 90 Percent confidance level

Significance = 10 percent

Area =(1 - 0.1)/2= 0.45

Zc=1.64 (from z table)

Answer: (2) 80 Percent confidance level

Significance = 20 percent

Area =(1 - 0.2)/2= 0.4

Zc=1.28 (from z table)

Answer: (3) 99 Percent confidance level

Significance = 1 percent

Area =(1 - 0.01)/2= 0.495

Zc=2.58 (from z table)