1) A normal distribution has a central peak and tails on either side, which get smaller as you move away from center. A uniform distribution is equally high as you move from minimum to maximum.

2) answers may vary… weights of Jack Russell Terriers, time spent per week studying by students in Stat 300, etc.

3) a) 33.4%
b) 60.1%
c) 20.6%

4) a) 34.8%
b) 99.99% or almost 100%
c) 32.0%

5) 9.48%

6) a) 14.7%
b) 6.2%
c) 15.6%
d) 2.3%

7) a) 26.7%
b) 17.8%
c) 14.4%

8) a) 15.0%
b) 10.2%
c) 10.4%