Let's use some different numbers, just for another problem example.

d = 20 units/day, std. dev. = 4 unit/day

L = 10 days

96% confidence

Q = 600 units

ROP (min level) = D(lead time) + SS

D(lead time) = 10 * 20 = 200

SS = 1.75 * Std dev(lead time) ---- sqrt(10*4^2) = 12.65

SS = 1.75 * 12.65 = 22.14

ROP = 222 unit

What is average inventory? Q/2 + SS = 600/2 + 22 = 322

Equal Order Period model

Max Level = D(lead time + review period) + SS

Review period is 30 days

D (T+L) = (30+10) * 20 = 800

SS = 1.75 * Std dev (lead time + review period) -- sqrt (40*4^2) = 25.3

SS = 1.75 * 25.3 = 44.271 –> 44

Max Level = 20 * (30+10) + 44 = 800 + 44 = 844

If we have 200 on hand (and nothing on order) then q = 844 – 200 = 644

What is average inventory? D(T)/2 + SS = (20 *30)/2 + 44 = 344