

MAT9D2 Practical Statistics
Solutions to Minitab Questions in Practical 3.

Spring 2016

SECTION A

Question 1 (a)

Stem-and-Leaf Display: Yield (kg)

Stem-and-leaf of Yield (kg) N = 30
 Leaf Unit = 0.10

```

1  14  0
2  15  0
3  16  0
5  17  00
8  18  000
11 19  000
15 20  0000
15 21  000
12 22  0000
8  23  00
6  24  000
3  25
3  26  00
1  27
1  28  0
  
```

Stem-and-Leaf Display: Yield (kg)

Stem-and-leaf of Yield (kg) N = 30
 Leaf Unit = 1.0

```

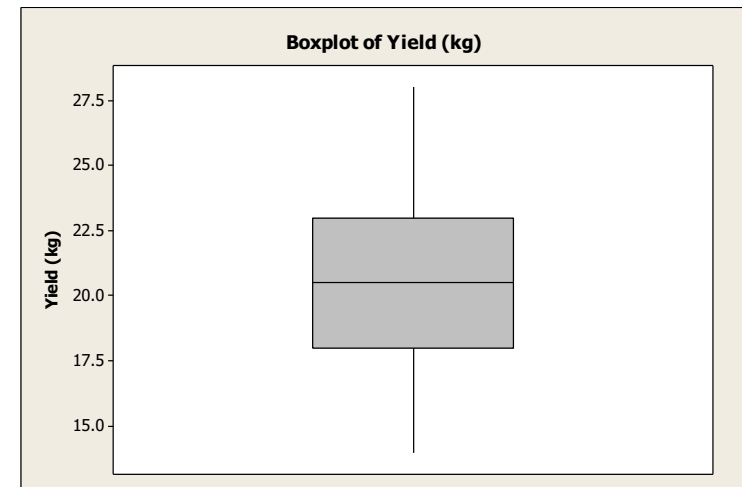
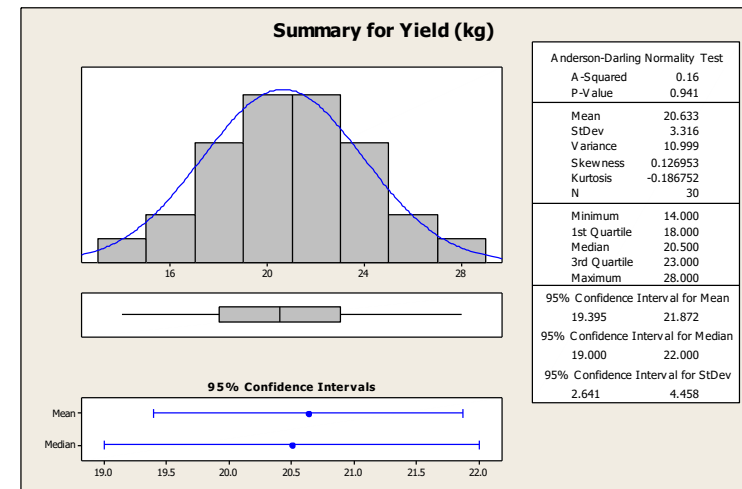
1  1  4
11 1  5677888999
(16) 2  0000111222233444
3  2  668
  
```

Question 1 (b)

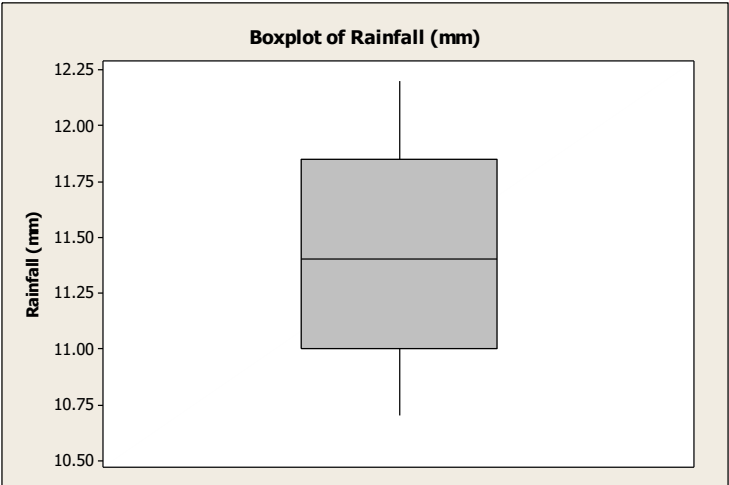
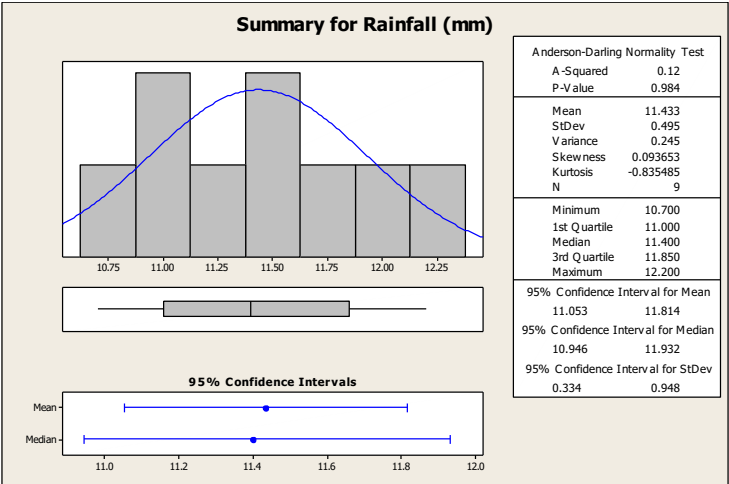
Descriptive Statistics: Yield (kg)

Variable	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3
Yield (kg)	30	0	20.633	0.605	3.316	14.000	18.000	20.500	23.000

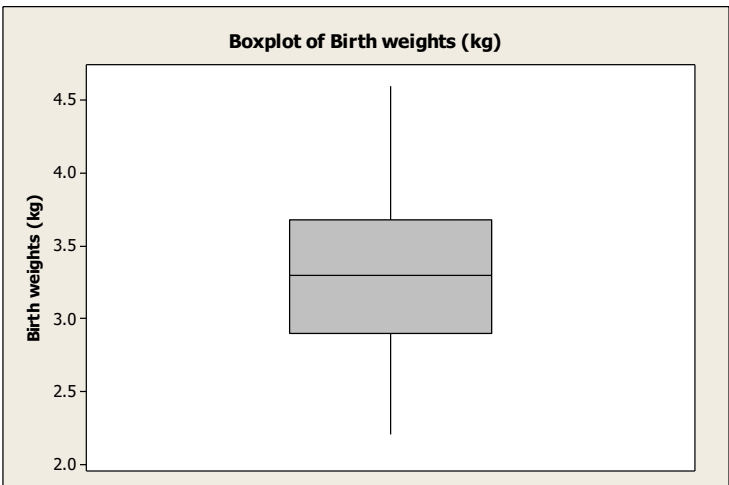
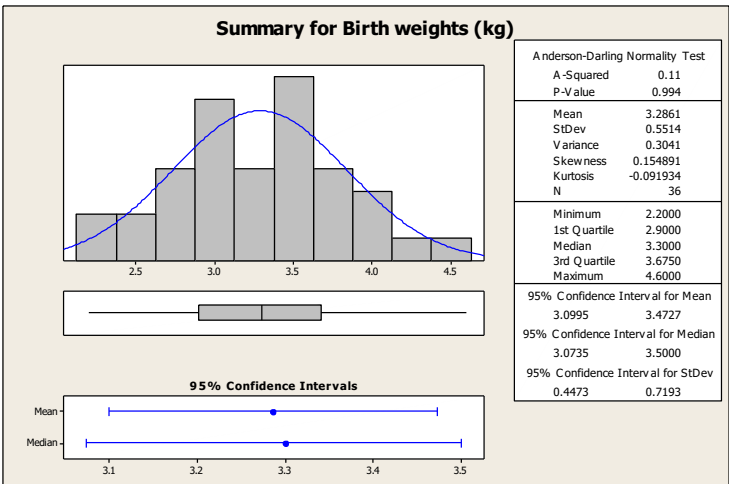
Variable	Maximum
Yield (kg)	28.000



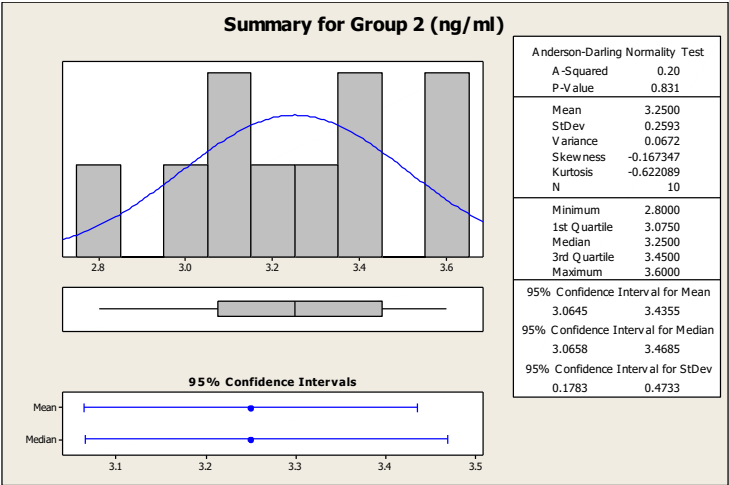
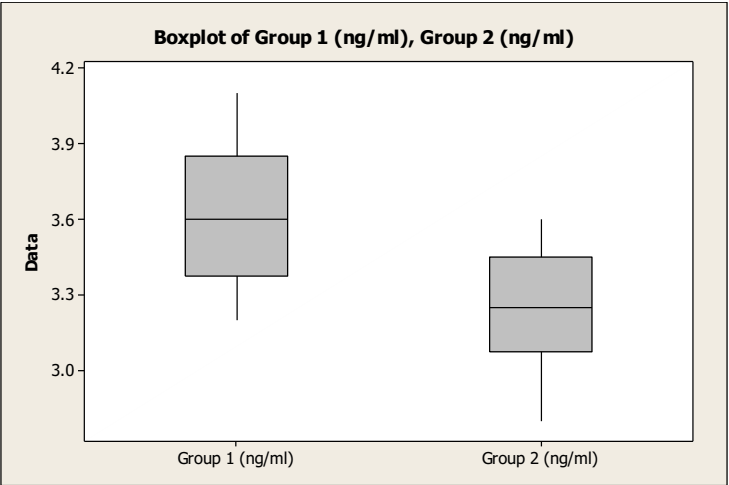
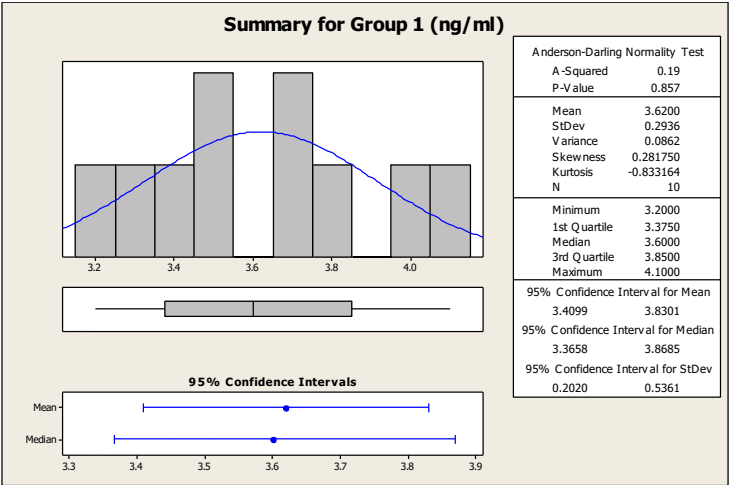
Question 2



Question 3

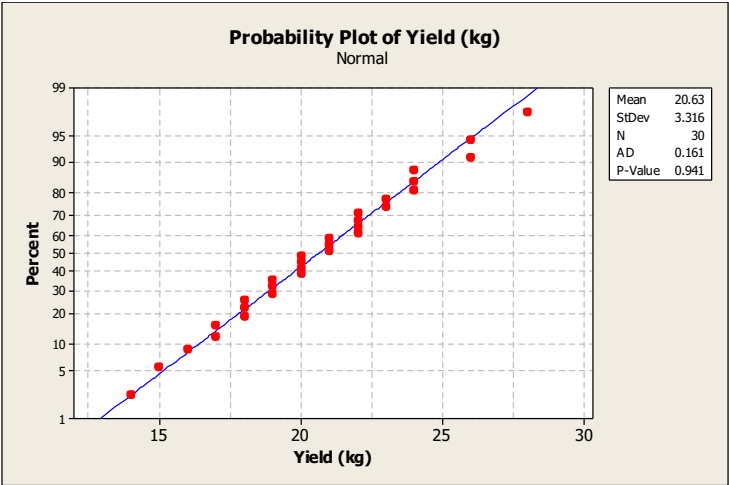


Question 4

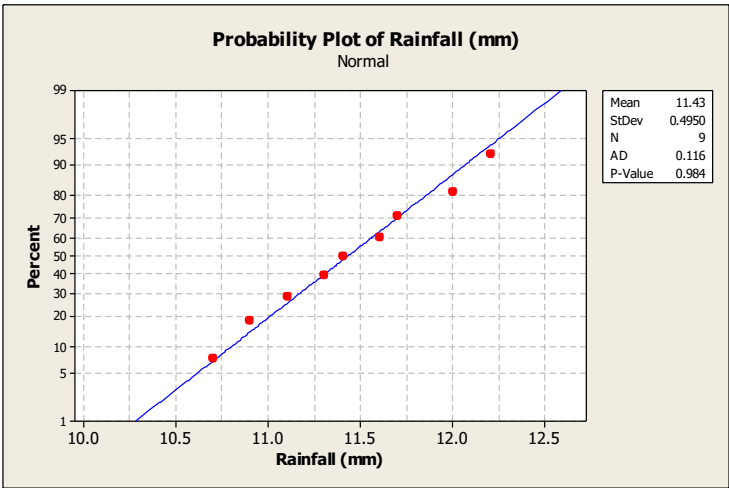


SECTION B

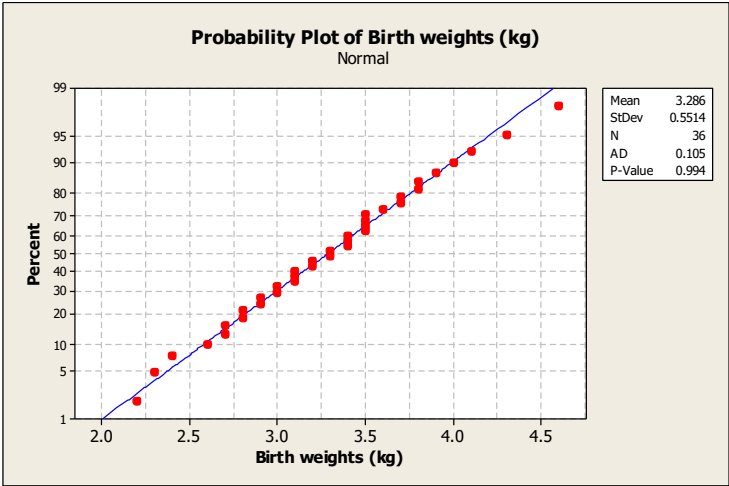
Question 1



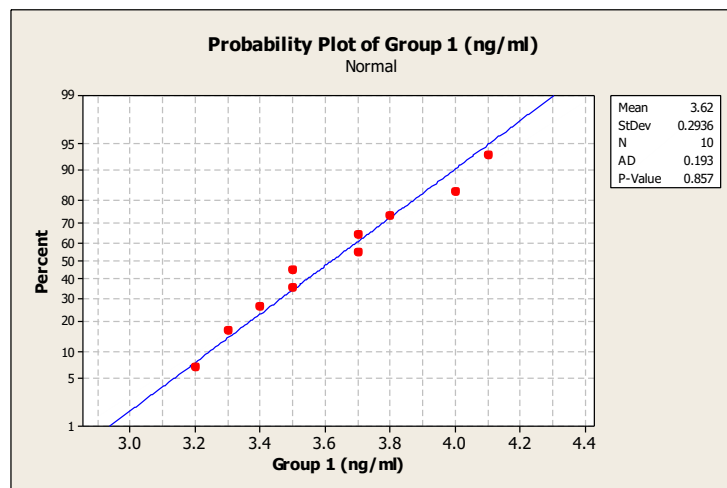
Question 2



Question 3



Question 4



SECTION C

One-Sample Z: Rainfall (mm)

Test of $\mu = 12.1$ vs not $= 12.1$
The assumed standard deviation = 0.4

Variable	N	Mean	StDev	SE Mean	95% CI	Z	P
Rainfall (mm)	9	11.433	0.495	0.133	(11.172, 11.695)	-5.00	0.000

