Review for final exam ANS

1) mean:_2 sd: 20.26 midrange:34 mode:_there is no mode range: 52; median: 19, variance: 410.67
2) A
3) A
4) B
5) B
6) A
7) B
8) D
9) D
10) B
11) A
12) D
13) B
14) B
15) D
16) B
17) A
18) D
19) C
20) C
21) A
22) D
23) D
24) B
25) C
26) D
27) A
28) A
29) A
30) B
31) A
32) D
33) D
34) B
35) D
36) C
37) D
38) A
39) C
40) B
41) B
42) B
43) D
44) B
45) A
46) C

47) A
48) D
49) B
50) Ho: $p = 0.11$. H_1: $p \neq 0.11$. Test statistic: $z = 4.61$. P–value: $p = 0.0001$.
Critical values: $z = \pm 1.96$. Reject null hypothesis. There is sufficient evidence to warrant rejection of the claim that the proportion of all children in the town who suffer from asthma is 11%.
51) Ho: $p = 0.5$. H_1: $p > 0.5$. Test statistic: $z = 0.99$. P–value: $p = 0.1611$.
Critical value: $z = 2.33$. Fail to reject null hypothesis. There is not sufficient evidence to support the claim that more than half of all those using the drug experience relief.
52) H_0: $\mu = 33.5$. H_1: $\mu \neq 33.5$. Test statistic: $t = 2.40$. P value = 0.0310; Reject H_0. There is sufficient evidence to warrant rejection of the claim that the mean is 33.5
53) H_0: $\mu = 14$ oz. H_1: $\mu \neq 14$ oz. Test statistic: $t = -2.36$. P value 0.050. Fail to reject Ho. There is not sufficient evidence to warrant rejection of the claim that the mean weight is 14 ounces.