

6.9 a. Supplier 1 b. Supplier 2 c. Supplier 1, because the bulbs generally last longer and have less variability in their lifetimes d. about 1000 e. about 100 6.13 b. .5, .125, .125 c. .75 d. .4375 6.15 a. height = 2 b. $\frac{1}{4}$ c. $\frac{7}{16}$ 6.17 a. .1003 b. .1003 c. .8185 d. .5 e. 1 f. .9390 g. .5910 6.19 a. .5398 b. .4602 c. .1469 d. .1469 e. .4577 f. .8944 g. .0730 6.21 a. 1.88 b. 2.33 c. -1.75 d. -1.28 6.23 a. 1.34 b. 0.74 c. 0 d. -1.34 e. One is the negative of the other. 6.25 a. .8185 b. 0 c. .0124 6.27 Recommend machine 2. 6.29 94.4 6.31 a. .5, .5 b. .8185 c. .0013 d. .0252 e. below 47.4 wpm 6.33 The plot is quite straight; the normal distribution provides a reasonable description of the distribution. 6.35 The plot does not look linear; the distribution is not adequately described by a normal distribution. 6.37 The plot looks linear; a normal distribution provides a reasonable description of the distribution. 6.39 .0228, 0 6.41 a. Only about 69.15% are shorter than 5'7". b. about 69% 6.43 a. .7745 b. .1587 c. .3085 d. The largest 5% are those that exceed 6.1645. 6.45 a. .8247 b. .0516 c. .6826 d. .0030 e. .3783

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