

Partial Sol for Suggested problems

ch 5

#6 (a) The Desert Inn Resort can afford to give away millions of dollars on a \$3 bet because almost all of the people who bet do not win the jackpot.

(b) The press release generate publicity, which entices more people to come and gamble. Even if that particular slot machine has paid out more than it ever took in, the publicity it gives to the casino more than makes up for it.

#8 (a) no $\text{Sum} < 1$

(b) no $\text{Sum} > 1$

(c) yes

(d) no negative value

(e) yes

#14

- (a) 0.3025
- (b) 0.2025
- (c) 0.2431

#24

- (a) (i) 0.04
- (ii) 0.51
- (iii) 0.55
- (b) (i) 0.041 (ii) 0.849 (iii) 0.9744
- (v) 0.373

#38

- (a) 0.62 (b) 0.867
- (c) 0.333 (d) 0.66

ch 6

#10

~~Min \$131,000~~ ~~Max \$2520.00~~

~~Q1 \$~~ ~~Q~~

Min \$131.⁰⁰

Q1 \$845.²⁵

Median \$1327.⁵⁰

Q3 \$1662.⁵⁰

Max \$2520.⁰⁰

#16

(a)

7	0
6	5
5	28
4	29
3	22399
2	29
1	
0	399

Home Runs

(710 means 70)

#20 (a)

min	Q1	Median	Q3	Max
1.55	2.525	2.65	2.74	3.03

(b) Range = max - min = 3.03 - 1.55 = \$1.48

IQR = Q3 - Q1 = 2.74 - 2.53 = \$0.21

ch 7

~~#2~~ #4

(a) 1, (b) 4 (c) 2 < 4 (d) 3 (e) 2 and 4

ch 21

#2 (a) Any number > 0

(b) Continuous

#4 (a) 0, 1, 2, 3, ...

(b) Discrete

#8 (a) $\mu = 60$, $\sigma = 12$

(b) $\mu = 6$, $\sigma = 1.5$

(c) $\mu = 92$, $\sigma = 12.37$

(d) $\mu = 68$, $\sigma = 12.37$

#10 (a) \$15,000

(b) \$22,912.⁸⁸