BEST FIT LINES
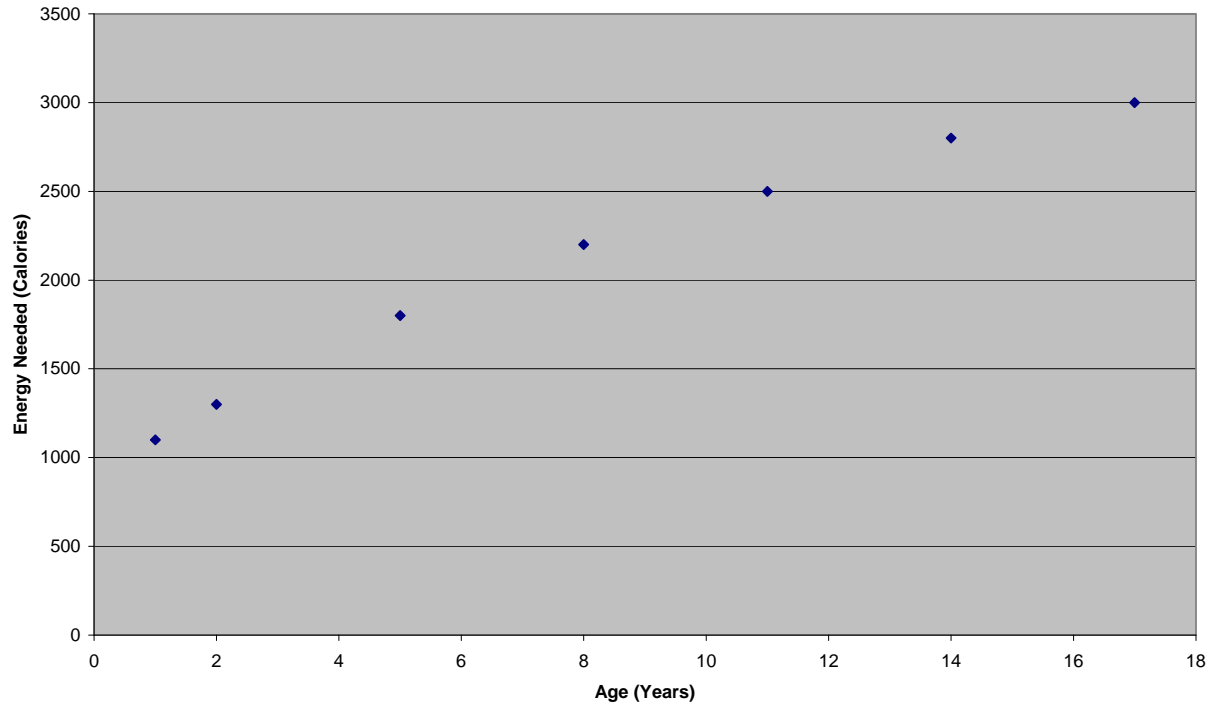(Pp 81-85)

13a)

DAILY ENERGY REQUIREMENTS FOR MALES
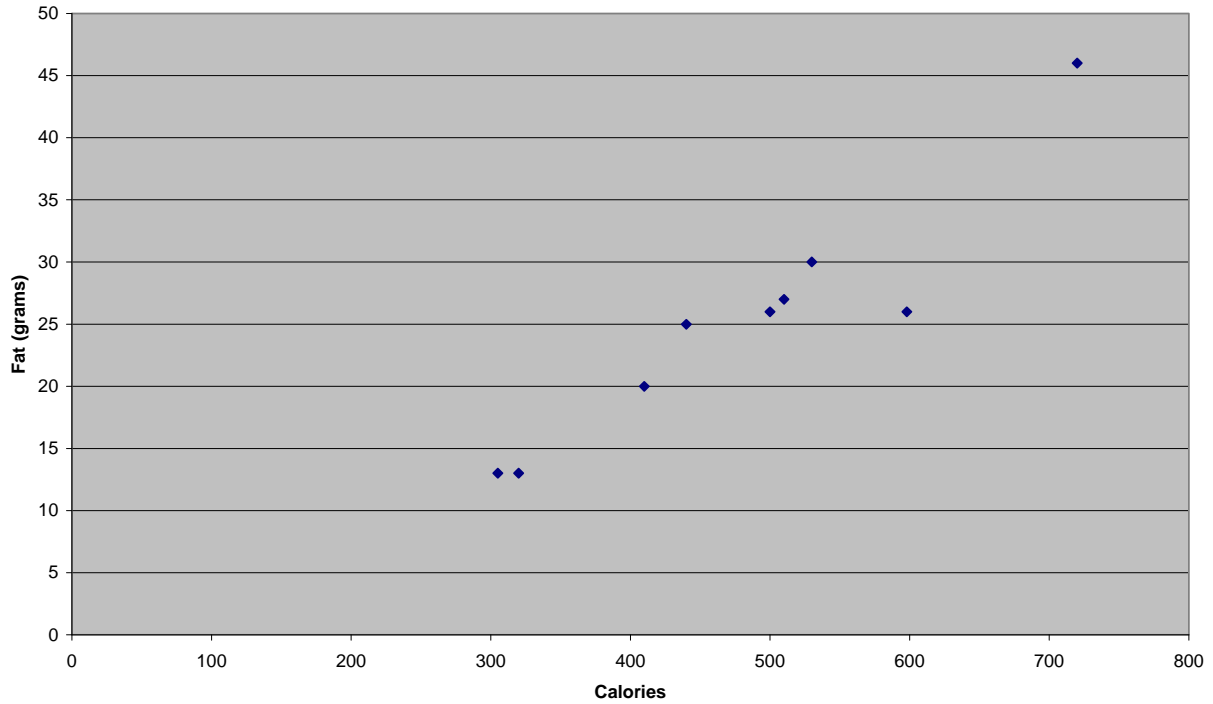**(r = .99)**

Energy Needed = 119.40(Age) + 110.68

b)　　3021.09 calories

c)　　No- adults need fewer calories (not more)

20a)

FAST FOOD HAMBURGERS
(r = .95)

$$\text{Fat Grams} = .0714(\text{Calories}) - 9.2682$$
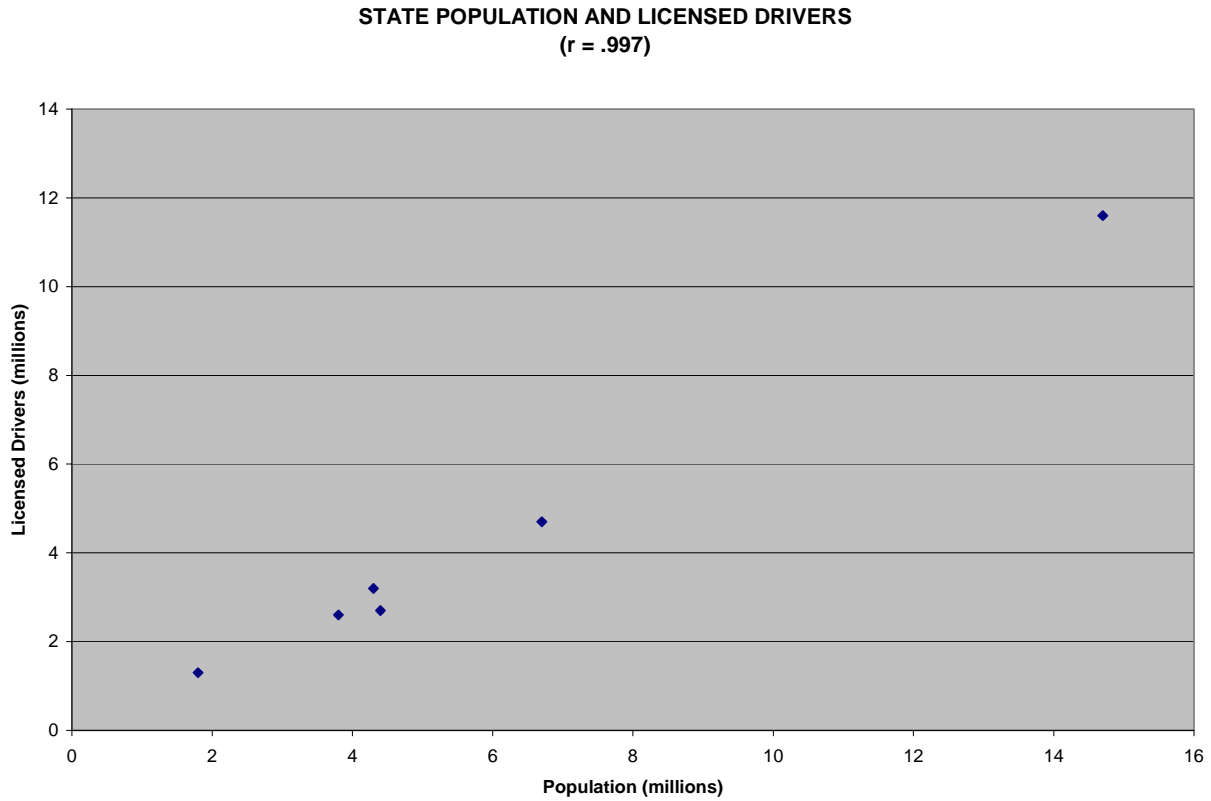
b)   14.30 grams

c)   200 calorie burger ---> 5.01 fat grams ---> 10 fat grams **not** reasonable

660 calorie burger ---> 37.86 fat grams ---> 36 fat grams reasonable

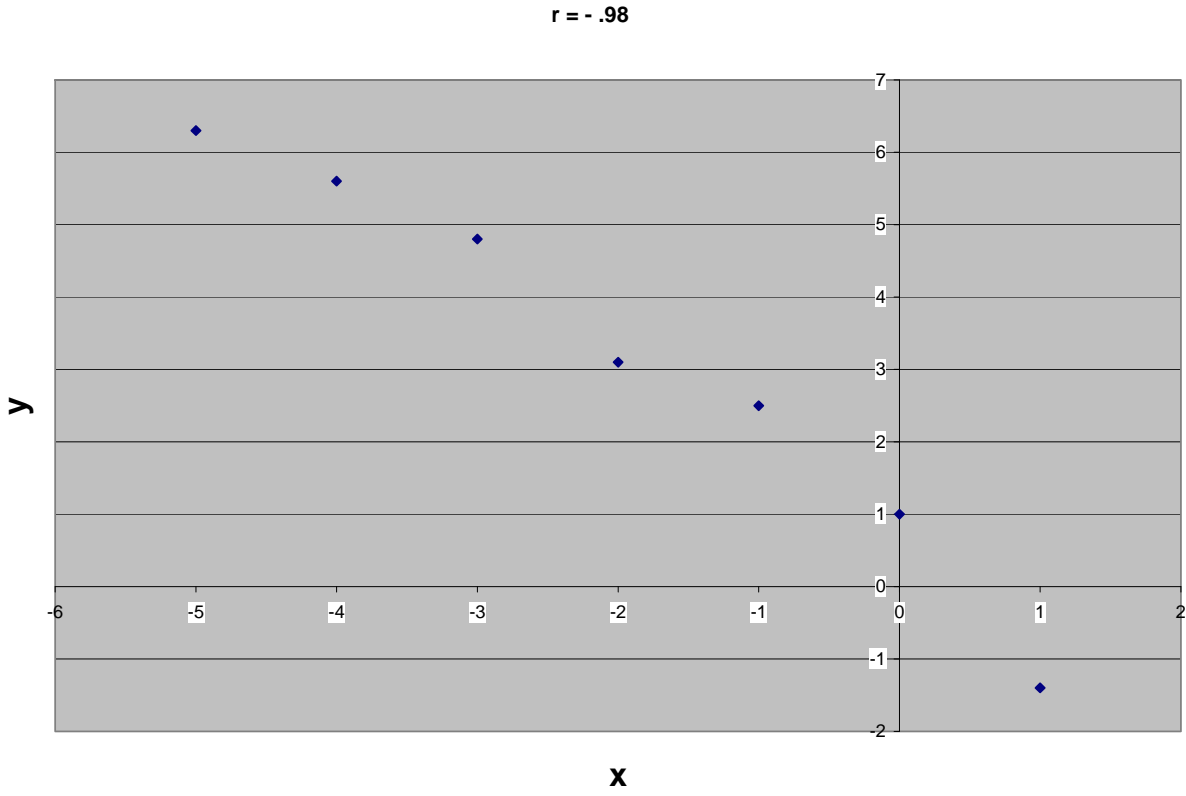**21a)** Population (use to predict licensed drivers)

b, c)

STATE POPULATION AND LICENSED DRIVERS
(r = .997)

Licensed Drivers = .8125(Population) − .4842

d) 1.95 million

e) Strong correlation (99.7)… all points fall close to a straight line

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1.

r = - .98

$$y = -1.2357x + .6571$$

2.

National Health Expenditures
r = .999
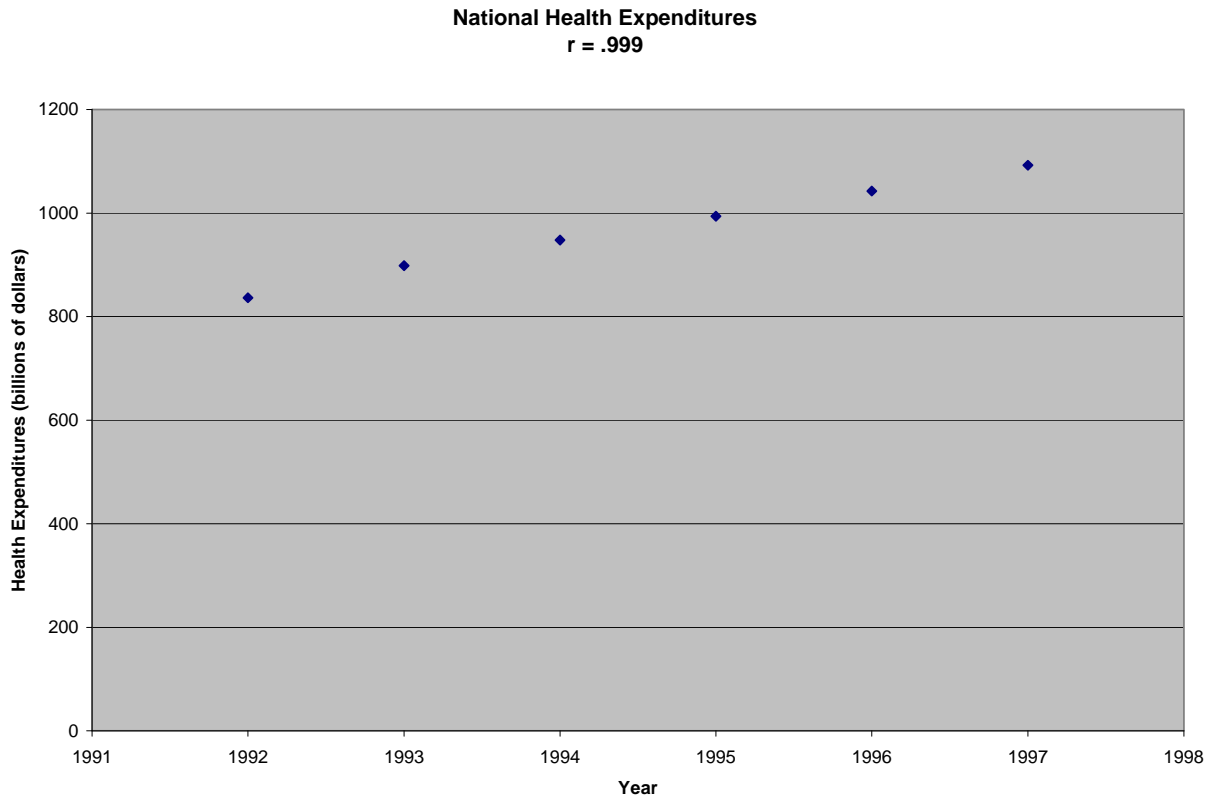
Health Expenditures = 50.21(Year) – 99183.84

↑

1992, 1993…

Health Expenditures = 50.21(Year) – 3776.7

↑

92, 93…

Health Expenditures = 50.21(Year) + 742.59

↑

2, 3…

3.

US Representatives
(r = .998)
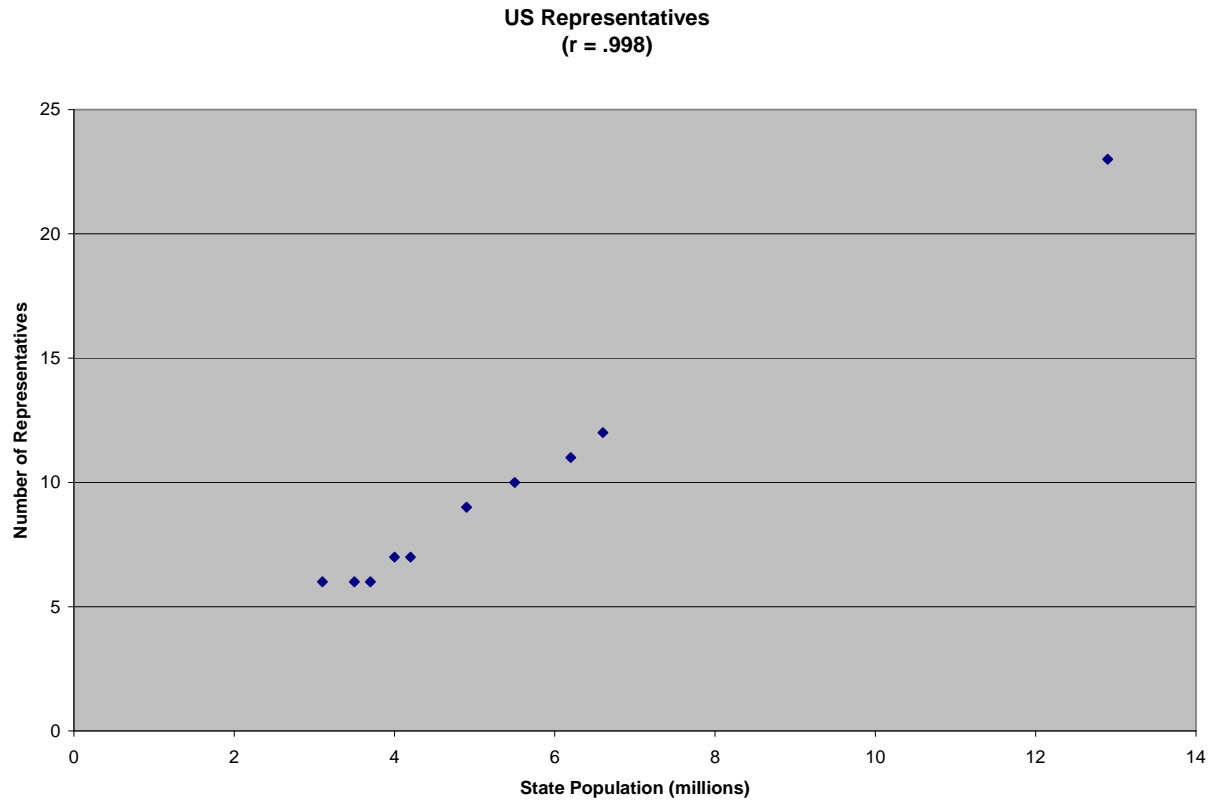
Number of Representatives = 1.80(Population) − .13