

Homework 3.3: [530]

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Exercise 4.32 (a) If a teen played soccer it is unlikely they used drugs.

Exercise 4.32 (b)

26 274

42 158

If a teen played soccer it is unlikely they used drugs. .09487905 .26582278

Exercise 4.32 (c) It is misleading since family income plays such a large role in determining if a teen used drugs. Correlation doesn't equal causation.

Exercise 04.38 1.5 sd below the mean $75 + (-1.5) \cdot 12 = 57$

Exercise 4.40

$$y - \bar{y} = \delta S_y / S_x (x - \bar{x})$$

$$y = 4.7208 + 1.216x$$

$$y = 4.7208 + 1.216 * 10$$

$$y = 16.8808$$

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