

Question 11

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We're finding missing counts. The counts will be expressed similarly to the conditional probability expression.

$$P(\text{Girl}|\text{Lone Ranger}) = 100 - 50 \rightarrow 50 \quad (1)$$

$$P(\text{Sesame Street}) = 30 + 80 \rightarrow 110 \quad (2)$$

$$P(\text{Simpsons}|\text{Girl}) = 200 - 130 \rightarrow 70 \quad (3)$$

$$P(\text{Boy}|\text{Simpsons}) = 90 - 70 \rightarrow 20 \quad (4)$$

	Lone Ranger	Sesame Street	Simpsons	Total
Boys	50	30	20	100
Girls	50	80	70	200
Total	100	110	90	300