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QUESTION

A department store is holding a drawing to give free shopping sprees to two lucky customers. There are 15 customers who have entered the drawing: 4 live in the town of Gaston, 5 live in Pike, and 6 live in Wells. In the drawing, the first customer will be selected at random, and then the second customer will be selected at random from the remaining customers. What is the probability that both customers selected are Wells residents?

Report your answer as an exact fraction. (If necessary, consult a list of formulas.)

$$\text{total} = 15$$

Since it says both look at each selection individually, then multiply

$$\frac{\overset{1^{\text{st}}}{\text{people in Wells}}}{\text{total people}}$$

$$\frac{\overset{2^{\text{nd}}}{\text{people left in Wells}}}{\text{total people left}}$$

$$\frac{6}{15} \cdot \frac{5}{14} = \frac{30}{210} \div \frac{30}{30} = \boxed{\frac{1}{7}}$$

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