

Conditional probability: two way tables

Exit ticket ANSWERS Name _____

	Bus	Walk	Total
Adult	12	33	45
Child	18	17	35
Total	30	50	80

Find the probability that a person took the bus, given that they are a child.

$$\frac{18}{35}$$

2 Find the probability that a person is a child, given that they took the bus.

$$\frac{18}{30} = \frac{3}{5}$$

3 Given that a person is an adult, Dev says the probability they took the bus is $\frac{12}{30}$.

Is Dev right? Explain.

No: $\frac{12}{45}$, out of 45 adults

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