

Week 6 — Confounding and multivariable thinking: Monday exit ticket

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Name: _____

Date: _____

Instructions

Work through each item below. Write your final response in the space provided. Show enough work that another reader can follow your reasoning.

1. A short news item reports:

'Among children, ice-cream sales are strongly associated with drowning deaths: months with the highest ice-cream sales are also the months with the most drownings.'

- (a) Name a plausible third variable that could be associated with **both** ice-cream sales and drowning deaths.
- (b) Explain in one sentence why this third variable would produce the observed association even though ice cream itself does not cause drowning.