

Solutions

2.1 $40 + 4.5 \times 3 = 53.5$.

2.2 $40 + 4.5 \times 10 = 85$, with extrapolation risk.

2.3 $5 - 1 = 4$; prediction at $x = 10$ lies outside.

3.1 False. Ice-cream sales and swimming attendance can both increase with hot weather. The shared temperature influence explains association without either variable causing the other.

Local review guidance: show the chosen method; give the checked result; explain the condition or failed shortcut. This is authored classroom guidance.