

2.9 (a) (i) 14

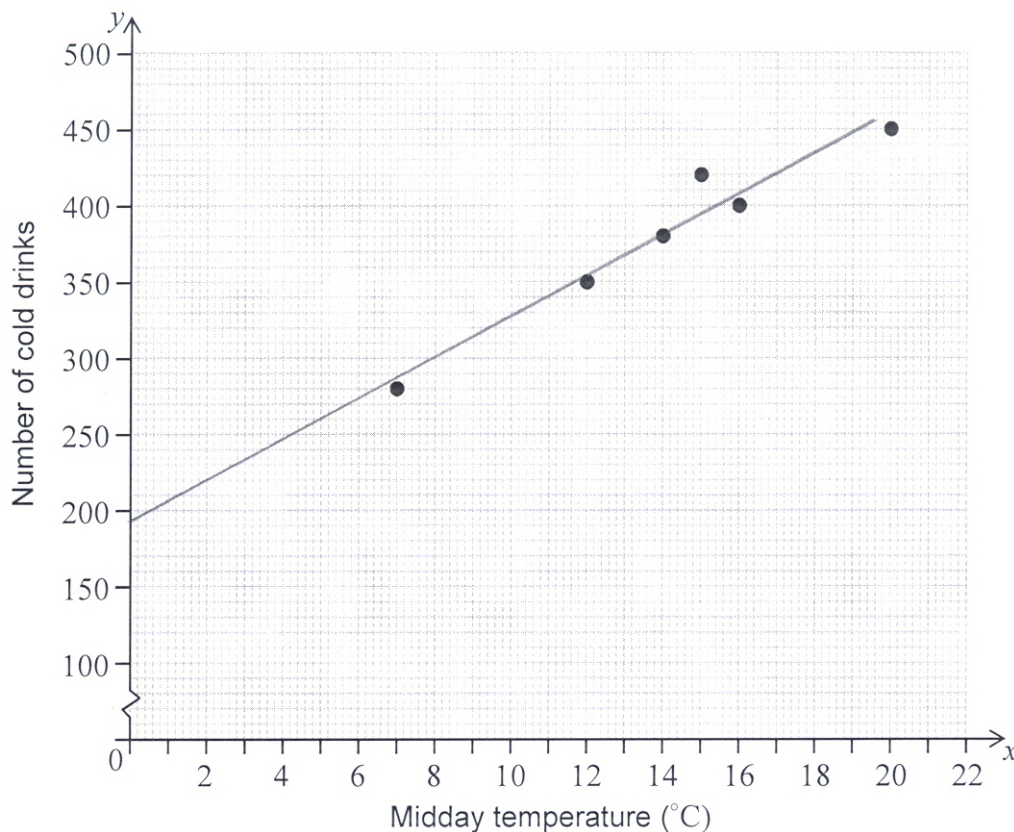
(A1)

(ii) 380

(A1)

(C2)

(b)



(A1)(ft)(A1)

(C2)

Note: Award (A1)(ft) for a **straight** line going through **their** mean point, (A1) for intercepting the y-axis between 160 and 220 inclusive. Follow through from part (a).

(c) an attempt to use their line of best fit to find y value at $x = 10$

(M1)

Note: Award (M1) for an indication of use of their line of best fit (dotted lines or some indication of mark in the correct place on graph).

OR

$$13.4(10) + 192$$

(M1)

Note: Award (M1) for correct substitution into the regression equation, $y = 13.4x + 192$.

$$= 326$$

(A1)(ft)

(C2)

Note: Follow through from part (b). Accept answers between 310 and 340, inclusive.

Total [6 marks]