

Reasoning 1

Modelled DAB Reasoning Responses

D – There is a mistake

A – Jerry has got muddled up – he multiplied 23 by 20 in the first cell – he has represented 460. He then multiplied 20 by 2 in the 2nd cell, 23 by 2 in the 3rd cell and 3 by 2 in the 4th cell.

B – He should have multiplied 20 by 20 and 20 by 2 then 3 by 20 and 3 by 2.

Reasoning 2

Modelled DAB Reasoning Response

D – Jane is wrong

A – $24 \times 43 = 1,032$

B – 40×20 (in the first cell is not 80 but 800).

Reasoning 3

Modelled DAB Reasoning Response

D – It is a plausible representation

A – The values in the cells are correct even though they are represented by mixed counter

B – $10 \times 30 = 300$, $10 \times 5 = 50$, $9 \times 30 = 270$ and $9 \times 5 = 45$

Reasoning 4

Modelled DAB Reasoning Response

D – The answer is incorrect

A – $17 \times 13 = 221$

B – The 3 tens (3×10) have not been added to the total.