

## Reasoning 1

### Modelled DAB Reasoning Responses

**D** – Marlon has not put a zero in the ones column of the second line.

**A** – You need to put a zero as a place holder as you are multiplying by 30 not 3.

**B** –  $5424 \times 30 = 162,720$  not 16,272

## Reasoning 2

### Modelled DAB Reasoning Response

**D** – Depends what of!

**A** – If it was money or something nice, you would want the larger amount so you would want 1,656 lots if 56. If it was something not nice, you would want the smaller amount!

**B** –  $1,765 \times 45 = 79,425$        $1,656 \times 54 = 89,424$

## Reasoning 3

### Modelled DAB Reasoning Response

**D** – Caleb is correct.

**A** – When you multiply an even number by an odd number, the product will always be even.

**B** – You could support this statement with smaller numbers and by working out  $4,562 \times 67 = 305,654$

## Reasoning 4

### Modelled DAB Reasoning Response

**D** – The missing ones digit has to be 9 as that is the only option that would result in a 3 in the ones column on the first row as  $7 \times 9 = 63$

**A** – The missing hundreds digit has to be 7(00) as  $7 \times 7(00) = 49(00)$ . If you add the 3(00) from the previous calculation, this would give 52(00) resulting in a 2 in that column and 5 being exchanged into the thousands column.

**B** –  $5,749 \times 67 = 385,183$