

Correct. The information gives you two equations:

$$y - x = 26 \text{ and } \frac{x + y}{2} = 68$$

Multiply the second equation by 2:  $x + y = 136$

Add this to  $y - x = 26$ :  $2y = 162$ , so  $y = 81$

Substitute into the third equation:  $81 + x = 136$ , so  $x = 55$