5 and 7 difference

This is another question with more than one possible answer

Let the numbers be a, b, c and d.

So $a + b + c + d = 100$

$a - b = 7$

$c - d = 5$

a and b can't be the same numbers since they have a difference of 7

c and d can't be the same numbers since they have a difference of 5

So the possibilities are that $a = c$ or $a = d$ or $b = c$ or $b = d$

1) If $a = c$

   $a - b = 7 \Rightarrow b = a - 7$

   $c - d = 5 \Rightarrow a - d = 5 \Rightarrow d = a - 5$

   So $a + b + c + d = 100$ can be written $a + a - 7 + a + a - 5 = 100$

   $4a - 12 = 100$

   $4a = 112$