Both Newsweek and Time not Fortune,

$n(N \cap T) - n(N \cap T \cap F)$.

$= 20 - 8 = 12$

Both Newsweek and Fortune not Time,

$n(N \cap F) - n(N \cap T \cap F)$

$= 25 - 8 = 17$

Both Time and Fortune not Newsweek,

$n(T \cap F) - n(N \cap T \cap F)$

$= 15 - 8 = 7$

So, $n(N \cup T \cup F) = 120$

Total numbers $= 28 + 18 + 10 + 12 + 17 + 7 + 8$

$= 120$

The sum is 120 which filled the Venn diagram correctly.

(c) From (b) we get,

only Time readers = 18

only Fortune readers = 10

only Newsweek readers = 28

People read one magazine only $= 18 + 10 + 28$

$= 56$