The part of field cultivated by A in 1 day $= \dfrac{2}{5 \times 6}$

$= \dfrac{1}{15}$

The part of field cultivated by B in 1 day

$B = \dfrac{1}{3 \times 10} = \dfrac{1}{30}$

$\therefore$ The part of field cultivated by A and B together in 1 day $= \dfrac{1}{15} + \dfrac{1}{30} = \dfrac{3}{30} = \dfrac{1}{10}$

$\therefore \dfrac{4}{5}$ part of field is cultivated by A and B together in 1 day $= \dfrac{4}{5} / \dfrac{1}{10}$ days $= \dfrac{4 \times 10}{5} = 8$ days