(a) : Pipe A    12      4

                     48

Pipe B    16      3

Work done by $A$ in 5 minutes $= 4 \times 5 = 20$

$\therefore$    $48 - 20 = 28$ was done by $(A + B)$ in $x$ minutes.

$\therefore$    $x = \dfrac{28}{7} = 4$ minutes.