DIGI PAGE

PIPE AND CISTERN

(2) A pipe can fill a tank in 10 hours .The second pipe can empty it in 25 hours.

If both pipe are opened together find time taken to fill the tank?

CAPACITY OF TANK(ASSUMED) → 50 LTR

EFFICIENCY OF EACH PIPE → +5 , -2

GIVEN DATA → 10 HOURS (+) , 25 HOURS (-)

LCM of 10 & 25 is 50 (capacity of tank)

TIME = W/E

= 50/(5-2)

= 50/3 Hours.