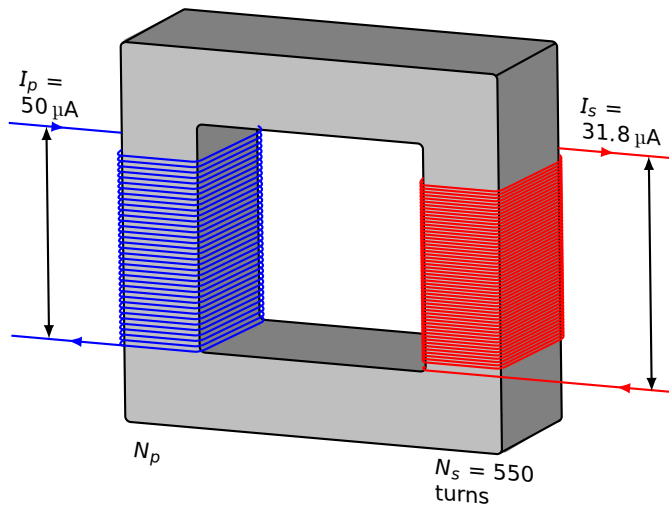
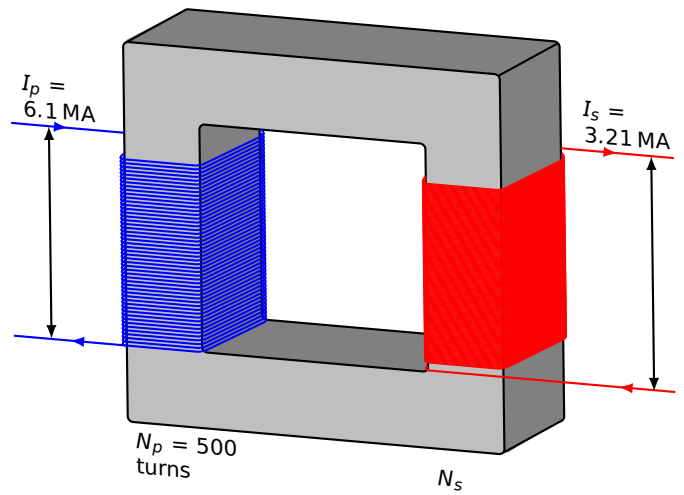


Calculate number of turns on the primary, N_p or secondary coil N_s . The number of turns *drawn* on the diagram aren't accurate and assume the transformer is 100% efficient;

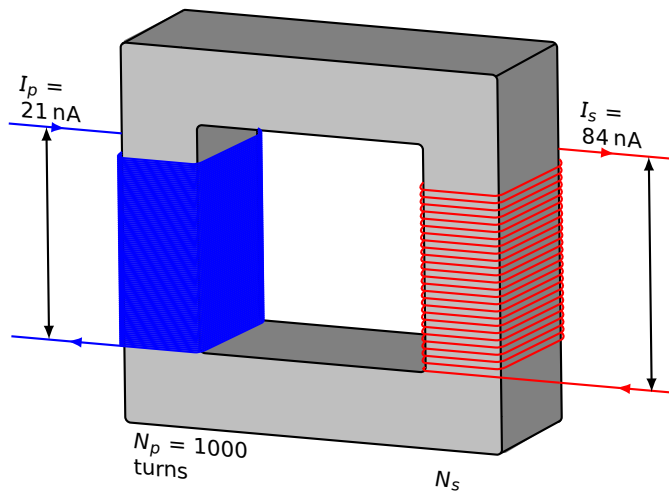
1)



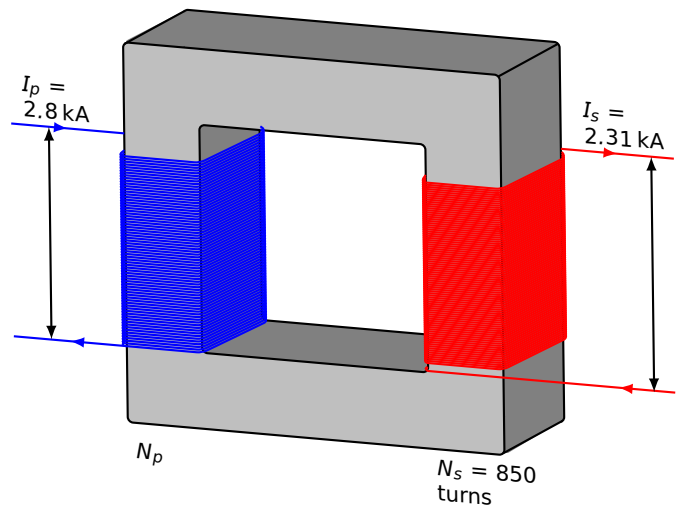
2)



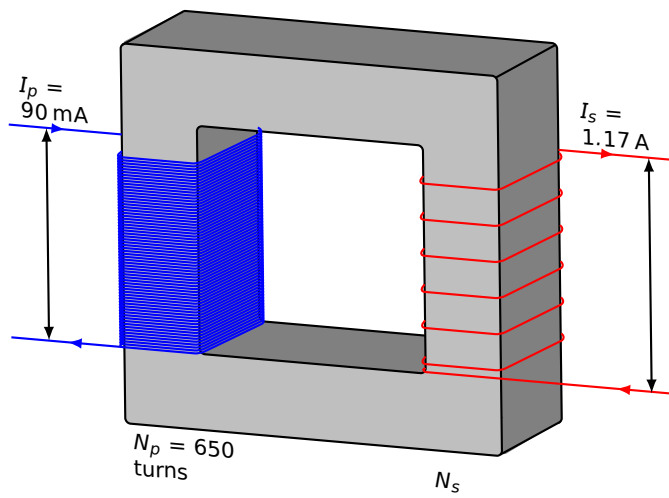
3)



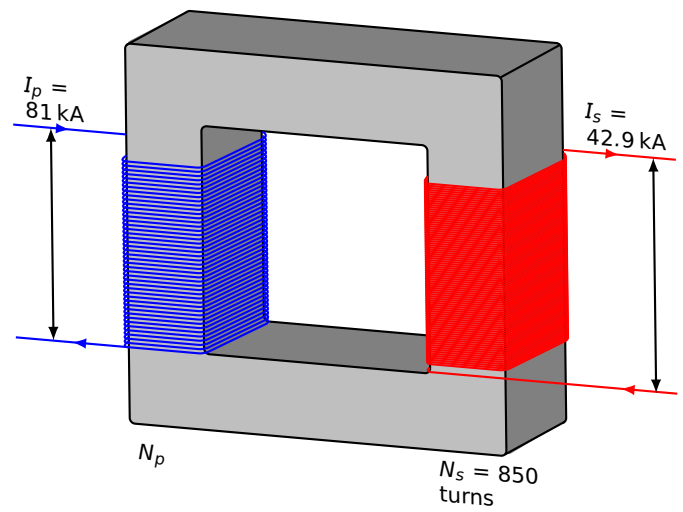
4)



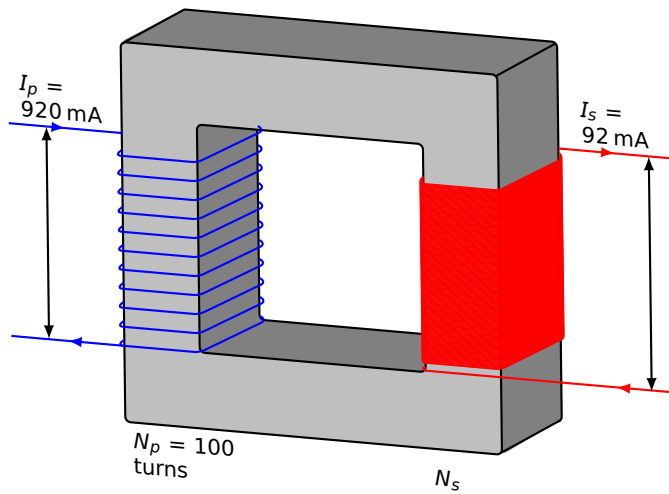
5)



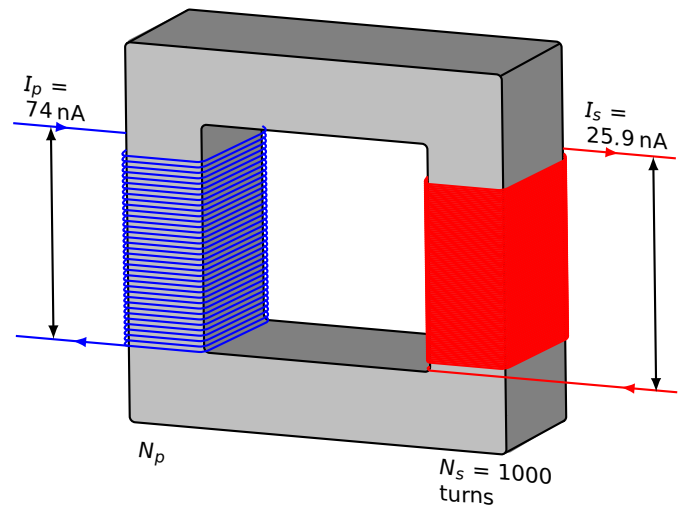
6)



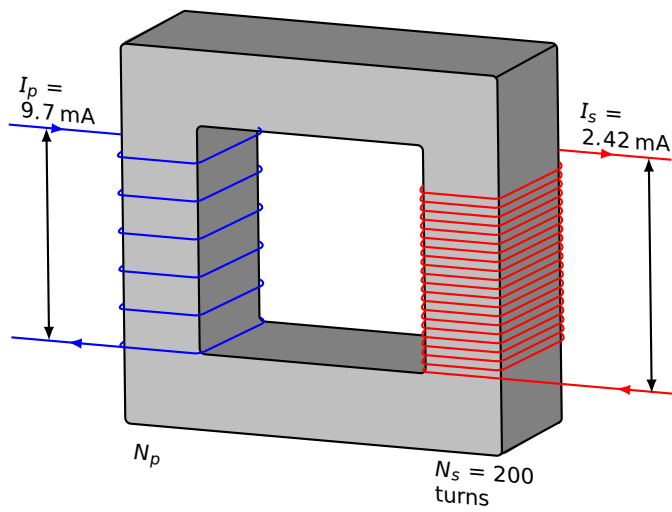
7)



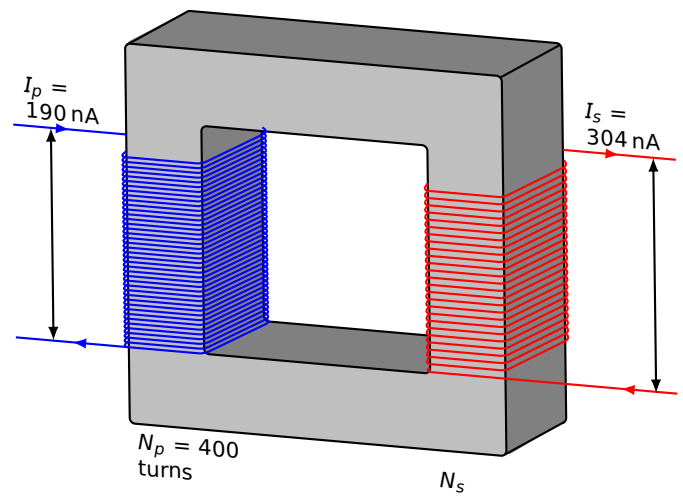
8)



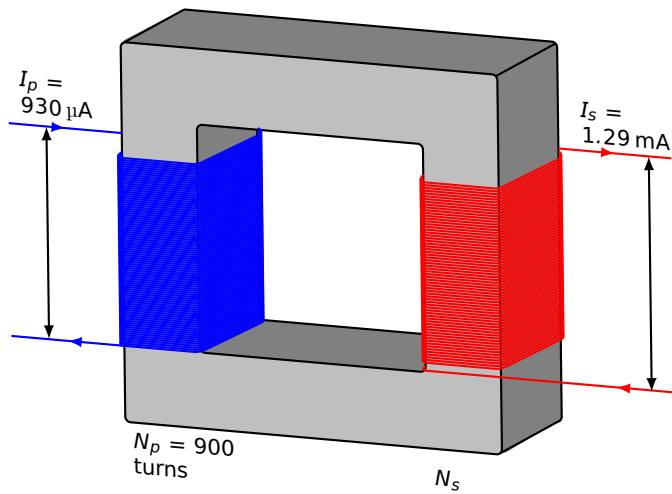
9)



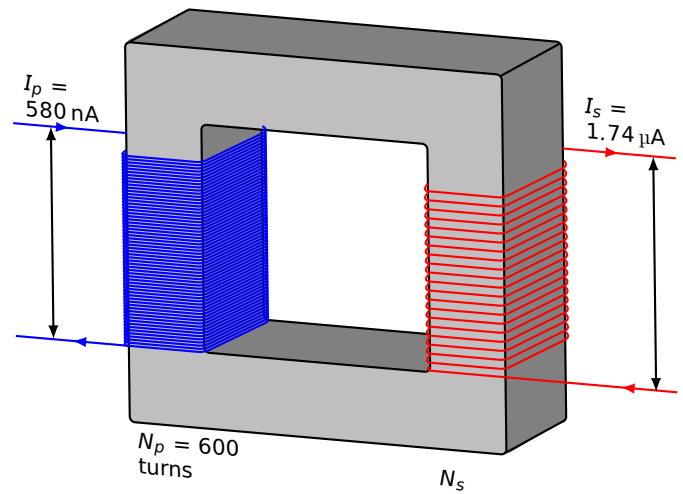
10)



11)



12)



Answers

- 1) $N_p = 350$ turns
- 2) $N_s = 950$ turns
- 3) $N_s = 250$ turns
- 4) $N_p = 700$ turns
- 5) $N_s = 50$ turns
- 6) $N_p = 450$ turns
- 7) $N_s = 1000$ turns
- 8) $N_p = 350$ turns
- 9) $N_p = 50$ turns
- 10) $N_s = 250$ turns
- 11) $N_s = 650$ turns
- 12) $N_s = 200$ turns