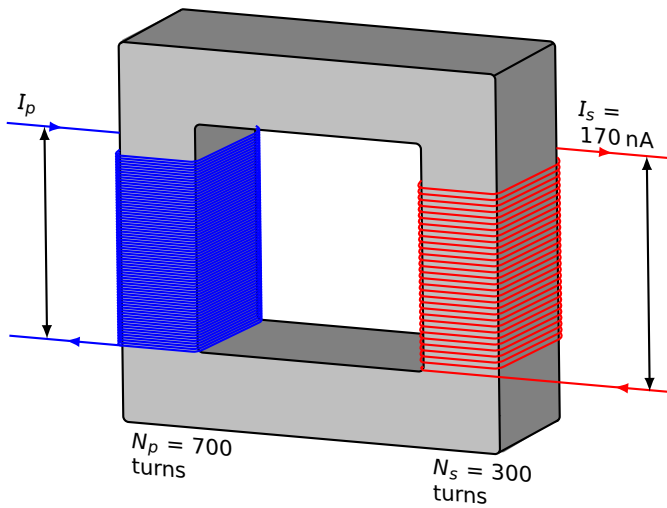
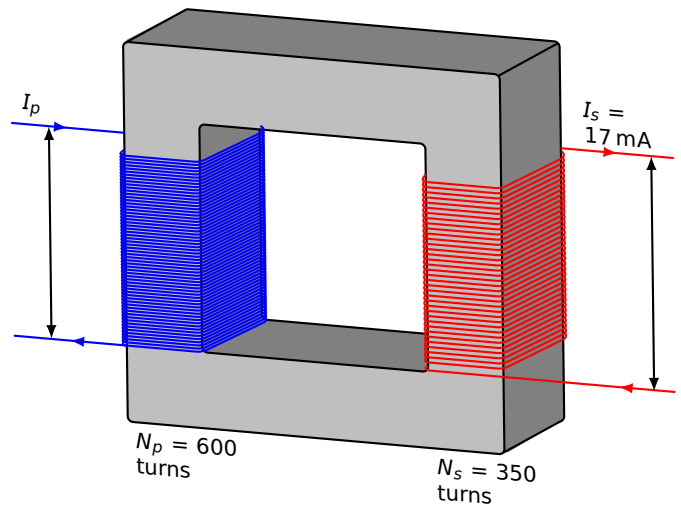


Calculate the current through the primary, I_p or secondary coil I_s . The number of turns *drawn* on the diagram aren't accurate and assume the transformer is 100% efficient;

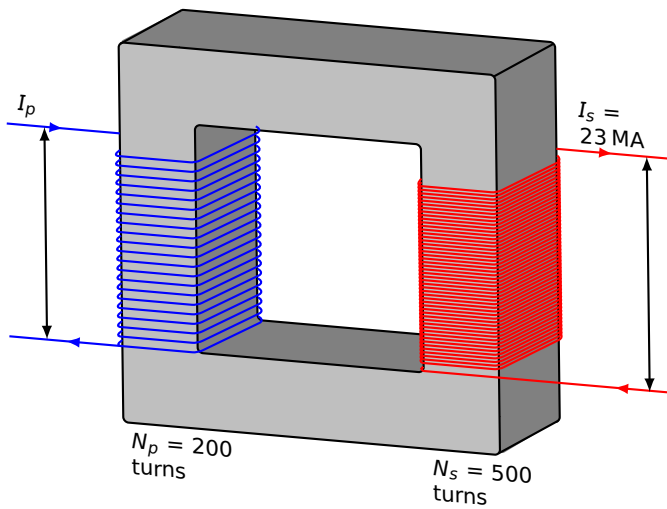
1)



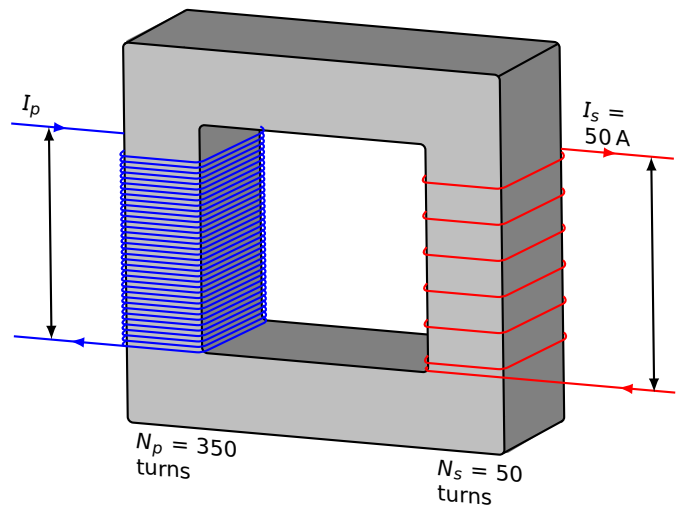
2)



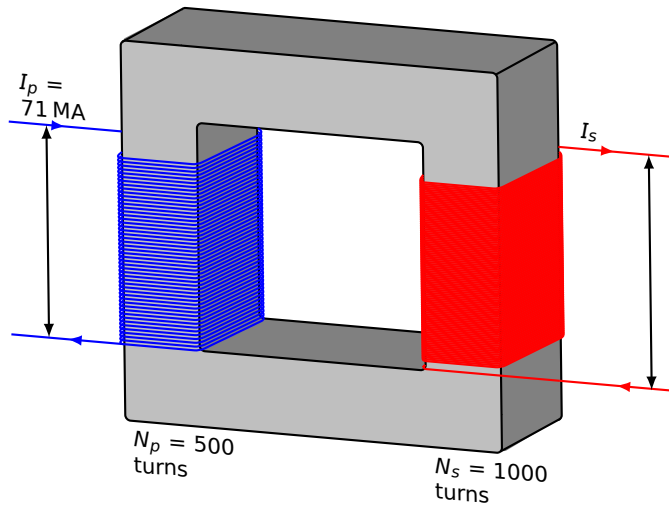
3)



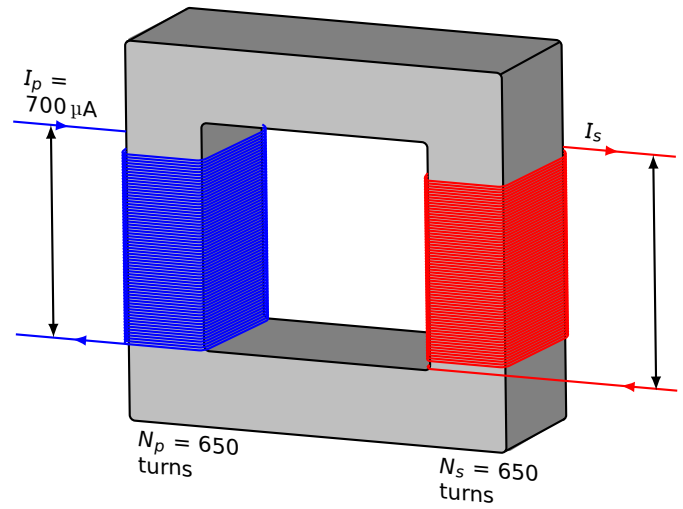
4)



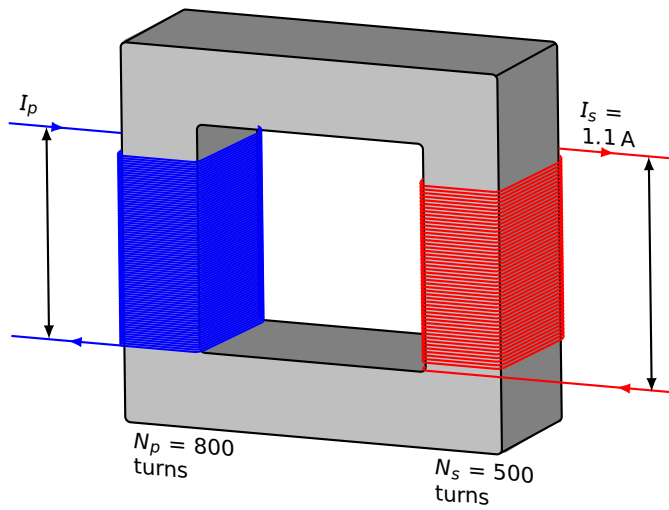
5)



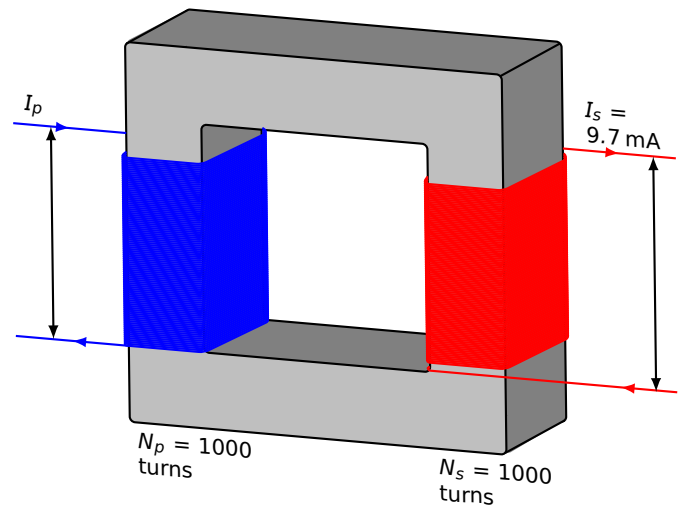
6)



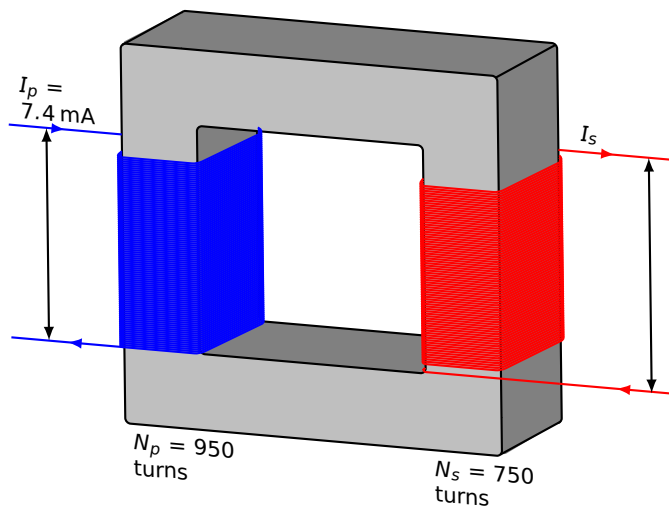
7)



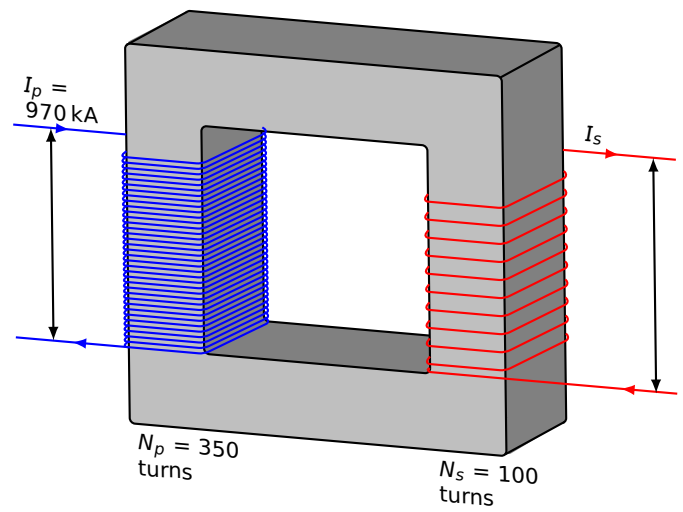
8)



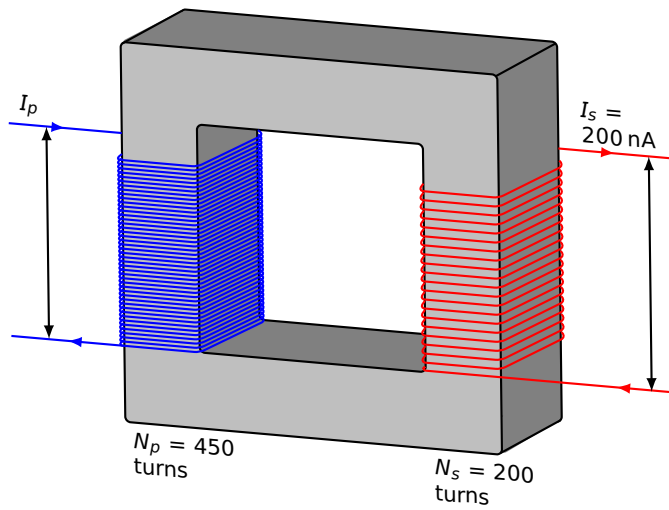
9)



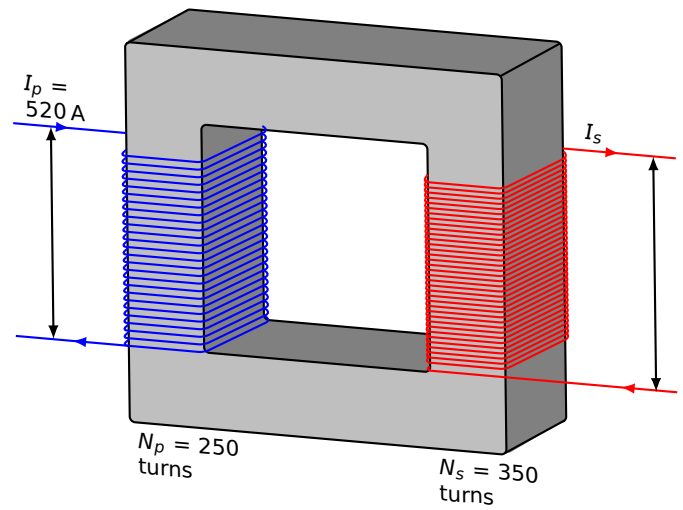
10)



11)



12)



Answers

- 1) $I_p = 71 \text{ nA}$
- 2) $I_p = 9.7 \text{ mA}$
- 3) $I_p = 57 \text{ MA}$
- 4) $I_p = 7.2 \text{ A}$
- 5) $I_s = 36 \text{ MA}$
- 6) $I_s = 700 \text{ }\mu\text{A}$
- 7) $I_p = 710 \text{ mA}$
- 8) $I_p = 9.7 \text{ mA}$
- 9) $I_s = 9.4 \text{ mA}$
- 10) $I_s = 3.4 \text{ MA}$
- 11) $I_p = 87 \text{ nA}$
- 12) $I_s = 370 \text{ A}$