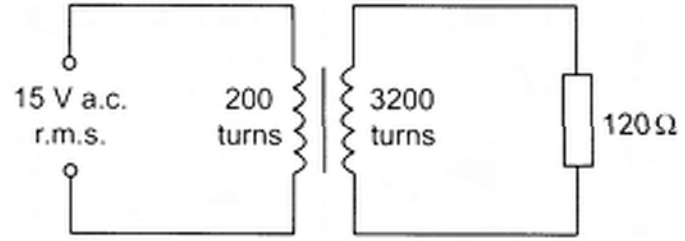
33 The primary of an ideal transformer has 200 turns and is connected to a 15 V root-mean-square (r.m.s.) supply. The secondary has 3200 turns and is connected to a resistor of resistance 120 Ω, as shown in the diagram.



What are possible values of the secondary voltage, the secondary current and the mean power dissipated in the resistor?

	secondary voltage /V r.m.s.	secondary current /A r.m.s.	resistor power /W
A	24	0.020	4.8
B	24	0.20	48
C	240	0.50	120
D	240	2.0	480