Physics video of the week, number 3 —

The Thermoelectric Effect https://youtu.be/06waiEeXDGo

I True or false?

Circle the	correct	answer	and	instify	if	it's	false

T/F 1	The speaker believed that connecting a wire to a battery would trap the current in a loop.
	True – As a child, the speaker hoped to catch the current in a loop by quickly connecting the wire ends.
T/F 2	The thermoelectric effect can create a voltage from a temperature difference.
	True – A temperature difference can create a voltage, which is part of the thermoelectric effect.
T/F 3	The speaker explains that heating one end of a wire causes electrons to move apart.
	True – Heating one end causes electrons to move apart due to increased thermal energy.
T/F4	The Seebeck effect is pronounced in all metals equally.
1/1 1	False – The Seebeck effect is more pronounced in some metals and less in others.
	raise – The Seebeck effect is more pronounced in some metals and less in others.
T/F[5]	A thermocouple is created by joining two similar metals together.
	False – A thermocouple is created by joining two dissimilar metals together.
T/F 6	The speaker uses a voltmeter to show that a small current is flowing in the wire loop.
	False – The speaker uses a multimeter in ammeter mode to show a small current flowing in the loop.
T/F 7	The Peltier effect is the opposite of the Seebeck effect.
	True – It states that applying a current between dissimilar metals can create a change in temperature.
	II Translate into English
\Diamond	Fil électrique : wire
\Diamond	Alliage: allow
\Diamond	Chauffer: to heat (up)
\Diamond	Refroidir: to cool (down)
\Diamond	Dans le sens des aiguilles d'une montre : clockwise
\Diamond	Un chauffe-eau : a boiler
\Diamond	Une coupure de courant : a power cut