If we have different amounts of the same kinds of materials at different temperatures and put them together, what happens?

The resulting temperature will settle down to be

1. pretty close to 40 °C
2. pretty close to 80 °C
3. pretty close to 20 °C
4. greater than 80 °C
5. less than 20 °C

100 g of water at 80 °C

200 g of water at 20 °C