## Answer on question \#56557, Physics / Other

Question a person decides to lose weight by eating only cold food. a 100 g piece of apple pie yields 1500 kj of energy when eaten. it it's specific heat is $1.7 \mathrm{kj} / \mathrm{kg}$ degrees celsius, how much less energy is its energy component at 5 celsius than at 25 degrees celsius

Solution The difference in energy is

$$
\Delta Q=c m \Delta T=1.7 \cdot 0.1 \cdot(25-5)=3.4 k J
$$

