

C12 Practice Problems #3

*Show all work from base equation to isolation of  $t_f$  and then all values put into equation ending in final answer.*

1. What is the final temperature of 1.20 kg of water at  $33.0^\circ\text{C}$  if 112 g of steam at  $115.0^\circ\text{C}$  is added to it?

2. What is the final temperature of 544 g of steam at  $125.0^\circ\text{C}$  if it is added to 170 g of ice at  $-33.0^\circ\text{C}$  are added to it?