

C12 Practice Problems #1

*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 275 g of lead at  $10.0^\circ\text{C}$  if it is added to 112 g of water at  $99.0^\circ\text{C}$ ?

2. What is the final temperature of 1.44 kg of water at  $65.0^\circ\text{C}$  if it is added to 6.70 kg of iron at  $13.0^\circ\text{C}$ ?