

1. How many calories are needed to raise the temperature of 354 grams of water from 48°C to 88°C ?

Answer _____

2. How many calories does it take to melt 1,234 grams of ice at 0°C ?

Answer _____

3. How many calories does it take to freeze 45 grams of water starting at 34°C ?

Answer _____

4. How many calories does it take to freeze completely vaporize/boil 125 grams of water starting at 34°C ?

Answer _____

5. How many calories are required to raise the temperature of 150 g of alcohol from 24°C to 36°C ? The specific heat of alcohol is $.58 \text{ cal/g}^{\circ}\text{C}$.

Answer _____

6. What is the specific heat of lead if it takes 4.27 cal to raise the temperature of 10 grams of lead 14°C ?

Answer _____

7. How many grams of water absorb 28 calories to change the temperature 15°C ?

Answer _____

8. What is the temperature change of 400 grams of water that absorbs 275 calories?

Answer _____