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1. A 50g ice cube at 0 degrees Celsius is heated until 45g has become water at 100 degrees Celsius and 5g has become steam at 100 degrees Celsius. How much energy was added to accomplish this?

2. A 100g cube of ice at 0 degrees Celsius is dropped into 1.0kg of water that was originally at 80 degrees Celsius. What is the final temperature of the water after the ice melts?

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