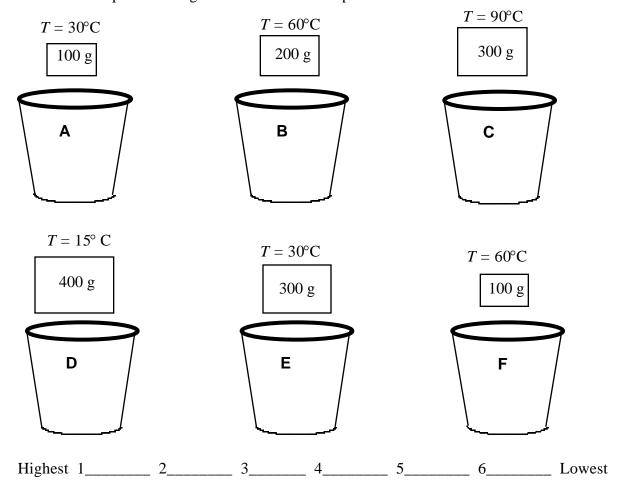
## Copper and Water in Styrofoam Cups—Maximum Temperature 109

You have six styrofoam cups containing the same amount of water at 20°C. You also have six copper blocks whose masses and initial temperatures vary as shown below. One block goes into each cup. (Assume the mass of the water is between 500 g and 1000g.)

Rank these cups according to the maximum temperature of the water after the block is added.



Or, all of the cups have the same maximum temperature.

Please carefully explain your reasoning.

How sure were you of your ranking? (circle one)

 Basically Guessed
 Sure
 Very Sure

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10

<sup>109</sup> I. Szalai, W. Thompson, J. Hehn, M. Mann