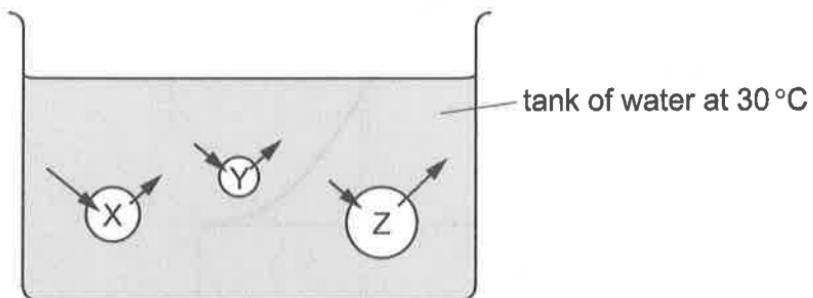


13 Three objects X, Y and Z are put into a tank of water kept at 30 °C.

The arrows represent the input and the output of thermal energy for each object just after being placed in the tank.

The length of each arrow corresponds to the quantity of energy transferred.



What are the initial temperatures of X, Y and Z?

	X	Y	Z
A	above 30 °C	at 30 °C	below 30 °C
B	above 30 °C	below 30 °C	above 30 °C
C	below 30 °C	above 30 °C	below 30 °C
D	below 30 °C	at 30 °C	above 30 °C

14 In a certain process, 1 g system is taken from a thermodynamic state X to another