1. One number is four times another numbers, the sum of the numbers is 140 . Find the numbers.
2. One airplane costs four times as much a a certain car. Two such planes cost $\$ 6000$ more than six of the cars. Find the cost of each.
3. A part of $\$ 5000$ was invested at $4.5 \%$ and a part at $5.5 \%$. the $4.5 \%$ investment yields $\$ 75$ more each year than the $5.5 \%$ investment. How much is invested at each rate?
4. A man rowed up a river 10 miles in 5 hours and back in 2.5 hours. Find the rate of the current and his rate of rowing in still water.
5. A chemical company has in storage a $15 \%$ solution and a $25 \%$ solution of disinfectant. How many gallons of each should be used to make 50 gallons of a $22 \%$ solution?
