

Capture/Recapture Codebreaker

A	B	C	D	E	F	G	H	I
120	200	108	72	56	360	280	240	48
J	K	L	M	N	O	P	Q	R
35	15	64	180	300	18	84	12	216
S	T	U	V	W	X	Y	Z	'
60	100	20	54	175	480	196	144	40

Answer the questions below, link your answers to the table above to reveal what I had to send to the French car manufacturer before I could work there:

10 mice are captured in a barn, tagged then released. The farmer then catches 50 mice of which 5 are tagged. Estimate the total number of mice in the barn.	Marine biologists capture 50 of the sharks, tag them then release them. The following week 140 sharks are spotted, of which 40 are tagged. What is the estimated population of the shark species?	It is estimated that there are 240 sweets in a jar. Some sweets are taken out, marked using edible ink, then replaced and mixed up in the jar. 40 sweets were taken out of the jar, of which 3 were marked. How many sweets were originally marked with ink?
Susan marks 30 counters and places them in a bag with other unmarked counters. Some counters are taken out of the bag, of which 12 are marked. Susan says that her estimate for the total number of counters is 270. How many counters did Susan take out of the bag?	Scientists want to estimate the size of the barn owl population in one area. They capture and tag 15 barn owls. The next week they spot 36 barn owls, 10 of them are tagged. Estimate the population of barn owls.	Conservationists believe there are around 3000 wild tigers in India. They have tagged 50 tigers as part of their research in the population. How big a sample which contains one tagged tiger is required to confirm that this estimate is correct?