Stratified sampling

Name:





	h	-h	l.co.u	
mai	115-50	HOO	i.CO.U	ĸ

a) A school of 1000 pupils has 200 pupils in year 9.		
A stratified sample of 50 pupils is taken.	10	
How many year 9 pupils should be picked?	• •	
b) A room of 400 people has 100 adults and 300 children		
in it. A stratified sample of 40 people is taken.	4.0	
How many adults should be picked?	10	
HOW Many addits should be picked:		
c) An office of 880 people has 80 vegetarians.		
A stratified sample of 110 people is taken.	10	
How many vegetarians should be picked?		
d) A school of 720 pupils has 180 pupils in year 10.		
A stratified sample of 80 pupils is taken.		
How many pupils picked should not be year 10 pupils?	60	
How Many pupils picked should not be year to pupils:		
e) A room of 192 people has 42 adults and 150 children in it.	A 1 11 ¬	
A stratified sample of 30 people is taken.	Adults: 7	
How many adults and children should be picked?	Children: 23	
	Official eff. 25	
Capture – Recapture Method Questions		
f) 80 fish were caught in a lake, marked and then released.		
The next day, 10 were caught, of which 5 had markings.	400	
Estimate the number of fish in the lake.	160	
V 20 C L and a second second and and the analysis of		
g) 80 fish were caught in a lake, marked and then released.		
The next day, 20 were caught, of which 4 had markings.	400	
Estimate the number of fish in the lake.	400	
(1) 70 City and acceptable a later marked and then released		
h) 76 fish were caught in a lake, marked and then released.		
The next day, 30 were caught, of which 12 had markings.	190	
Estimate the number of fish in the lake.	130	
The second secon		
i) 32 fish were caught in a lake, marked and then released.		
The next day, 15 were caught, of which 3 had markings.	160	
	160	

Exam question:

A scientist wants to estimate the number of fish in a lake.

He catches a sample of 20 fish from the lake.

He marks each fish with a dye and then puts them back in the lake.

The next week the scientist catches 24 fish from the lake.

He finds that 3 of them are marked with the dye.

Estimate the total number of fish in the lake.

