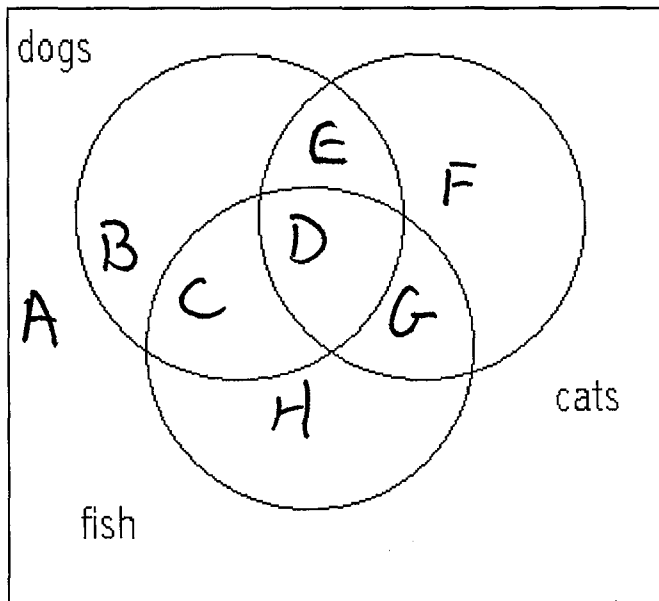


50 pet owners were questioned about their pets. It was found that, 24 had dogs, 29 had dogs or cats, 9 had dogs and cats, 2 had only cats, 8 had cats and fish, 8 had dogs and fish, but not cats, and 9 had only fish. Set this up in a Venn diagram.



	A	B	C	D	E	F	G	H	
1	1	1	1	1	1	1	1	1	50
0	1	1	1	1	1	0	0	0	24
0	1	1	1	1	1	1	1	0	29
0	0	0	0	1	1	0	0	0	9
0	0	0	0	0	0	1	0	0	2
0	0	0	0	1	0	0	1	0	8
0	0	0	1	0	0	0	0	0	8
0	0	0	0	0	0	0	0	1	9

50 pet owners were questioned about their pets.



all letters

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It was found that, 24 had dogs,



Just circle for dogs

---

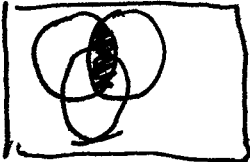
29 had dogs or cats,



Or is union  
So everything in both  
dog + cat circle

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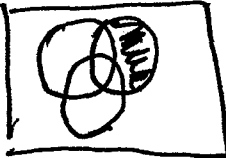
9 had dogs and cats,



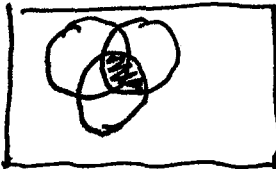
And intersection between  
dogs + cats : what they  
share

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2 had only cats,



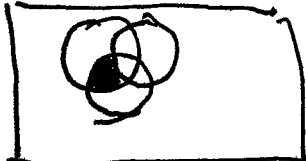
8 had cats and fish,



where cats and fish  
overlap ~~but~~

---

8 had dogs and fish, but not cats,



where dogs + fish overlap  
but take out cats

---

and 9 had only fish.

