

# Question 1 a

	Age			spectacle-prescrip		astigmatism		tear-prod-rate	
	young	pre-presbyopic	presbyopic	myope	hypermetrope	no	yes	reduced	normal
none	4	5	6	7	8	7	7	12	3
soft	2	2	1	2	3	5	0	0	5
hard	2	1	1	3	1	0	5	0	4
Entropy	1.5	1.298794941	1.061278124	1.384431504	1.188721876	0.9798687567	0.9798687567	0	1.554585169
Expected Info	1.286691022			1.28657669		0.9798687567		0.7772925847	

	tear-prod-rate							
	reduced			normal				
	None, Entropy 0			?????				
GIVEN normal	Age			spectacle-prescrip		astigmatism		
tear-prod-rate	young	pre-presbyopic	presbyopic	myope	hypermetrope	no	yes	
none	0	1	2	1	2	1	2	
soft	2	2	1	2	3	5	0	
hard	2	1	1	3	1	0	4	
Entropy	1	1.5	1.5	1.459147917	1.459147917	0.6500224216	0.9182958341	
Expected info	1.333333333			1.459147917		0.7841591279		
	tear-prod-rate							
	reduced			normal				
	None, Entropy 0			astigmatism				
			no			yes		
			????			????		

GIVEN no astigmatism						GIVEN yes astigmatism					
GIVEN normal	Age			spectacle-prescrip		GIVEN normal	Age			spectacle-prescrip	
tear-prod-rate	young	pre-presbyopic	presbyopic	myope	hypermetrope	tear-prod-rate	young	pre-presbyopic	presbyopic	myope	hypermetrope
none	0	0	1	1	0	none	0	1	1	0	1
soft	2	2	1	2	3	soft	0	0	0	0	0
hard	0	0	0	0	0	hard	2	1	1	3	2
Entropy	0	0	1	0.9182958341	0	Entropy	0	1	1	0	0.9182958341
Expected Info	0.333333333			0.459147917		Expected Info	0.666666667			0.459147917	
	tear-prod-rate										
	reduced			normal							
	None			astigmatism							
				no			yes				
				age			spectacle-prescrip				
				young	pre-presbyopic	presbyopic	myope	hypermetrope			
				Soft	soft	spectacle-prescr	hard	age			

GIVEN no astigmatism	GIVEN presbyopic age	GIVEN yes astigmatism	GIVEN hypermetrope spectacle-prescrip			
GIVEN normal	spectacle-prescrip		GIVEN normal	Age		
tear-prod-rate	myope	hypermetrope	tear-prod-rate	young	pre-presbyopic	presbyopic
none	1	0	none	0	1	1
soft	0	1	soft	0	0	0
hard	0	0	hard	1	0	0
Entropy	0	0	Entropy	0	0	0
Expected Info	0		Expected Info	0		

tear-prod-rate									
reduced			normal						
None			astigmatism						
			no			yes			
			age			spectacle-prescrip			
			young	pre-presbyopic	presbyopic	myope	hypermetrope		
			Soft	Soft	spectacle-prescrip	hard	age		
			myope		hypermetrope	young		pre-presbyopic	presbyopic
			None		Soft	Hard		None	None

# Question 1b

