35. Ausha placed a square plece of red filter in front of a torch as shown in diagram 1.

When the torch was switched on, she noted.a Square patch of light on the  
screen. She then repeated the same experiment with blue and green filters.  
  
+ Colour of filter used | Colour of square patch of light  
Pe  
ee ee  
  
(a) What was the aim of Alisha's experiment? {1]

Alisha then placed a can of drink behind a red filter as shown in diagram 2.

. me oe, black shadow  
. oo screen —\_ Screen.  
torch ; oo, OT  
seal ele Se ~redpateh  
sped ‘filter . Can of drink. . ot tignt  
digaram 2 diagram 3

(b). . Diagram 3. shows: what.she saw on the screen when the torch was  
switched on. Give an explanation for Alisha’s observations in diagram 3.  
oo ae : [2]