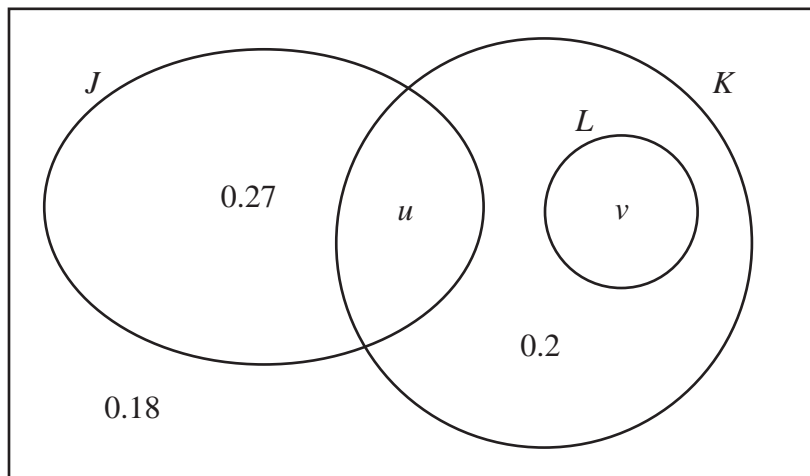


1. The Venn diagram represents three events  $J$ ,  $K$  and  $L$  and their associated probabilities. Two of the associated probabilities are  $u$  and  $v$



- (a) State which two events from  $J$ ,  $K$  and  $L$  are mutually exclusive.

(1)

- (b) Show that  $u + v = 0.35$

(1)

The events  $J$  and  $K$  are independent.

- (c) (i) Find an equation in terms of  $u$

(2)

- (ii) Hence find the value of  $u$  and the value of  $v$

(2)