

- e. Find $P([B \cup C])$ **(2)**

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Solutions

1a.

$P(A \cup B) = 0.35 + 0.45 - 0.13$	M1
$= 0.67$	M1

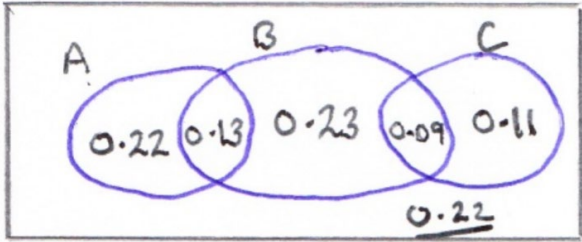
1b.

$P(A' \cap B') = \frac{P(A' \cap B')}{P(B')} = \frac{0.33}{0.55}$	M1
$= \frac{3}{5}$	M1

1c.

$P(B \cap C) = 0.45 \times 2$	M1
$= 0.09$	M1

1d.

	
Three intersecting circles	M1
0.22, 0.13, 0.23	M1
0.09, 0.11	M1
0.22 outside	M1

1e.

$P(B \cup C') = 0.22 + 0.22$	M1
$= 0.44$	M1