

- [illegible]

Solutions

1a.

Overall shape and labels	M1
All correct event 1 probabilities	M1
All correct event 2 probabilities	M1

1b.

$P = \frac{35}{100} \times \frac{3}{100}$	M1
$= \frac{21}{2000}$ (= 0.0105)	M1

1c.

$P = \frac{3}{100} \times \frac{25}{100} + \frac{6}{100} \times \frac{35}{100} + \frac{5}{100} \times \frac{4}{100}$	M1
$P = \frac{91}{2000}$ (= 0.0455)	M1

1d.

$P(C \cap D) = \frac{40}{100} \times \frac{5}{100} = \frac{200}{10000} = 1\frac{1}{50}$	M1
$P(C \mid D) = \frac{\frac{1}{50}}{0.0455}$	M1
$= \frac{40}{91}$ (= 0.440)	M1