

① a) $\frac{13}{5+8+10+15} = \frac{13}{36} = 36.1\%$

b) $\frac{13}{2+1+13} = \frac{13}{16} = 81.3\%$

c)

	Total	15	24	15	16	70

② a) $203 + 118 + 122 + 167 = 610$

b) $\frac{203+118}{610} = \frac{321}{610} = 52.6\%$

c) $\frac{178}{706} = 25.2\%$

d) YES over half that died were 3rd class.

③ a) Developed Polio: $\frac{33}{200745} = 0.02\%$

Did not develop polio: $\frac{200712}{200745} = 99.98\%$

b) Vaccinated: $\frac{33}{148} = 22.3\%$

Unvaccinated: $\frac{115}{149} = 77.7\%$

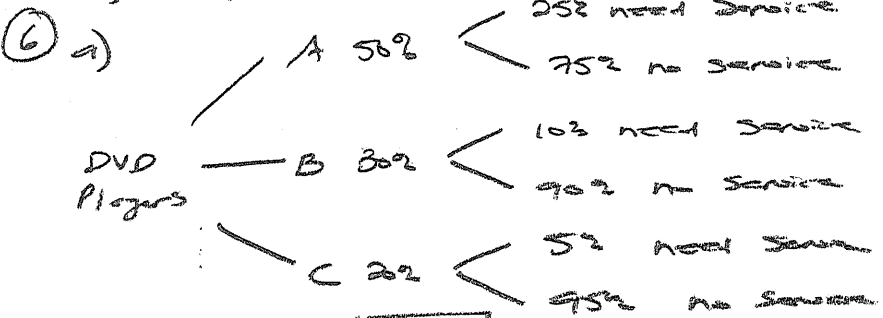
④ Men: 512 Women: 89 Fewer women applied.

⑤ a) 6231.6 → #, in thousands, of passenger cars involved in accidents

b) 47.9 → #, in thousands, of fatalities in all motor vehicle accidents

c) $\frac{7.8}{1568.6} = 0.5\%$

d) $\frac{7.8}{47.9} = 16.3\%$



b) $(0.5)(0.25) + (0.3)(0.1) + (0.2)(0.05) = 16.5\%$

c) $\frac{(0.5)(0.25)}{0.165} = 75.8\%$

⑦ a) $\frac{14}{168} = 8.3\%$

b) $\frac{316}{(338+316+57)} = 44.4\%$

c) $\frac{75+76+27}{338+316+57} = 25\%$

⑧ a) Man 1st class

$\frac{57}{175} = 32.6\%$

Child 2nd class

$\frac{22}{71} = 31.2\%$

b) $P(1st) + P(w) - P(both) = \frac{203}{711} + \frac{316}{711} - \frac{140}{711} = \frac{379}{711} = 53.3\%$