Problem

10.

10, (a)
$$8!$$

(b) $1! \times 2!$
(c) $4! \times \binom{2}{1} \times 4!$
(d) $4! \times 5!$
(e) $4! \times 2^4$

Problem

52.

55.

Problem

40.

40.

$$P\{tails|w\} = \frac{1}{2} \times \frac{3}{15}$$
 $= \frac{12}{25} \times \frac{12}{12} \times \frac{12}{12} = \frac{12}{37}$