1. Suppose C and D are two events such that P(C and D) = 0.25 and P(D) = 0.75. Find P(C|D).

   P(C and D) =
   P(D) =

$$P(C|D) = \frac{P(C \text{ and } D)}{P(D)} = \frac{\quad}{\quad} =$$

2. A number is selected at random from the numbers 1 to 12 inclusive.

   a. P(odd numbers) =
   b. P(multiple of 3 and odd numbers) =
   c. P(multiple of 3|odd numbers) $= \frac{P(\text{multiple of 3 and odd numbers})}{P(\text{odd numbers})} =$

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