Probability from two way tables

1. The two way table shows the distribution of members of the audience at a play.

	Stalls	Circle	Balcony	Total
Adults	36	39		112
Children	41		31	
Total		60		

(a) Complete the two way table

(b) What is the probability that a randomly chosen audience member is an adult and is seated on the balcony?

(c) What is the probability that a randomly chosen audience member is a child seated in the circle?

(d) What is the probability that a randomly chosen audience member is an adult?

(e) What is the probability that a randomly chosen audience member is sat on the balcony?

(f) What is the probability that a randomly chosen audience member is seated in the stalls?

(e) What is the probability that a randomly chosen audience member is a child?

2. The two way table shows which science some students prefer.

	Biology	Chemistry	Physics	Total
Girls	21		26	73
Boys				
Total	46	57		176

(a) Complete the two way table

(b) What is the probability that a randomly chosen student is a girl who prefers biology?

(c) What is the probability that a randomly chosen student is a boy who prefers physics?

(d) What is the probability that a randomly chosen student is a boy who prefers biology?

(e) What is the probability that a randomly chosen student is a boy?

(f) What is the probability that a randomly chosen student prefers biology?

(e) What is the probability that a randomly chosen student prefers physics?