



COACHING CENTRE

Relative Freq and Probability

Expected Freq

- 1 The probability of a red traffic light at an intersection is $\frac{1}{3}$. How many red traffic lights are expected on a trip that passes through 54 intersections?
- 2 The probability of a person living in a certain community of developing melanoma is four out of nine. There are 1404 people living in this community. What is the expected number of people who will develop melanoma?
- 3 Andrew and Caitlin are planning to have five children. A genetic counsellor has calculated they have a 40% chance of having a child with green eyes. How many of Andrew and Caitlin's children are expected to have green eyes?
- 4 Amira is a goal shooter for her netball team. The probability that she scores a goal is 88%. This year she had 225 attempts at goal.
 - a How many goals would you expect Amira to have scored this year?
 - b How many goals would you expect Amira to have missed this year?
- 5 Akira is a professional golfer who has a 78% chance of breaking par. He plays 150 games of golf in a year. How many times would you expect Akira to break par in a year?