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| **Statistics and Probability Revision**  | **4** |
| **(a)** | **(b)** | **(c)** |
| The table shows the probability of a child having different coloured eyes.

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| Blue | Brown | Green | Grey |
| 0.15 | 0.37 |  |  |

The probability of having green eyes is three times the probability of having grey eyes. Complete the table. | Seher has a biased six-sided dice. When rolled, the probability of the dice landing on a four is $0.35$. Seher is going to roll the dice $500$ times. Work out an estimate of the number of times it will land on a four. | The Venn diagram shows the numbers in each of the sets $C$ and $D$ and the universal set. |
|  | (i) List the members of $C∪D$(ii) List the members of $C'$(iii) List the members of $C∩D'$ |
| **(d)** | **(e)** | **(f)** |
| Six numbers $$4 x x 9 11 y$$are written in order of size. The numbers have a median of $7.5$ and a mean of $8$. Find the values of $x$ and $y$. | A bag contains red, white and black counters. There are $x$ red counters, $2x$ white counters and 6 black counters. When a counter is picked at random from the bag, the probability that it is a black counter is $\frac{1}{5}$. Find the value of $x$. | Class 7A has 20 students and class 7B has 24 students. Both classes sat a History test. The mean score in 7A was 70.2 and the mean score in 7B was 73.25. Find the mean test score across both classes, giving your answer correct to 1 decimal place.  |