1 A biased spinner can land on A, B or C.

The table shows the probabilities, in terms of k, of A, B and C.

	A	В	С
Probability	0.5 <i>k</i>	7 <i>k</i> – 0.15	2.5 <i>k</i>

Work out the probability of B.

[3 marks]

Answer ___ 0.655

2 In a class there are

n boys

a total of 25 students.

Two of the students are chosen at random.

The probability that both students are boys is $\frac{7}{20}$

Work out the value of n.

$$\frac{n}{25} \times \frac{n-1}{24} = \frac{7}{20}$$

[4 marks]

$$\frac{\eta^2 - \eta}{600} = \frac{7}{20}$$

$$(n-15)(n+14)=0$$



h should be positive, hence n=15



a = 15