

1. The table below shows the probabilities of choosing a counter from a bag. The ratio of black to yellow is in a ratio of 3:1. How many yellow counters are there all together?

Black	Green	Yellow
	0.5	

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(3 marks)

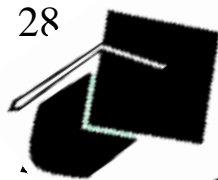
2. Lydia is applying for places at the University of Cambridge and Oxford Universities. The probability she will be accepted at Cambridge is 0.32. The probability she will be accepted at Oxford is 0.85.
- (a) Draw a tree diagram to show the probabilities.

- (b) Work out the probability she will be accepted at only 1.

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(2 marks)

3. 60 students attend a small sixth form college.

28 study all 3 sciences.



15 study chemistry and physics.

10 study biology and physics.

5 study biology and chemistry, but not physics.

3 students

38 students study biology.

9 students study science at all 3 schools.

How many students study chemistry?

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(4 marks)

2. There are 3 red counters and 7 white counters in a bag.

One counter is taken out, not replaced.

A second counter is then taken.

(a) Draw a tree diagram to display the possible outcomes.

(4 marks)

(b) Work out the probability that at least one is a red.

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(2 marks)

Score =