



Probability (H)

Pre-Intervention Assessment

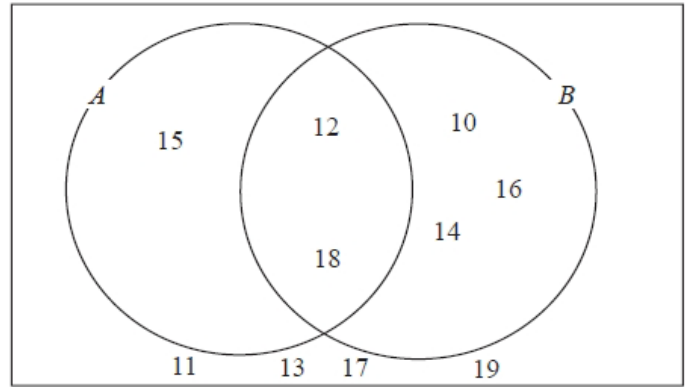
Name: _____

Class: _____

Date: _____

Question	Objective	RAG
1	Calculate probability from Venn Diagrams	
2	Draw and complete probability trees	
3	Calculate with conditional probability	
4	Solve probability problems involving algebra	

1. Here is a Venn diagram.



(a) Write down the numbers

that are in set

(i) $A \cup B$

.....

(ii) $A \cap B$

.....

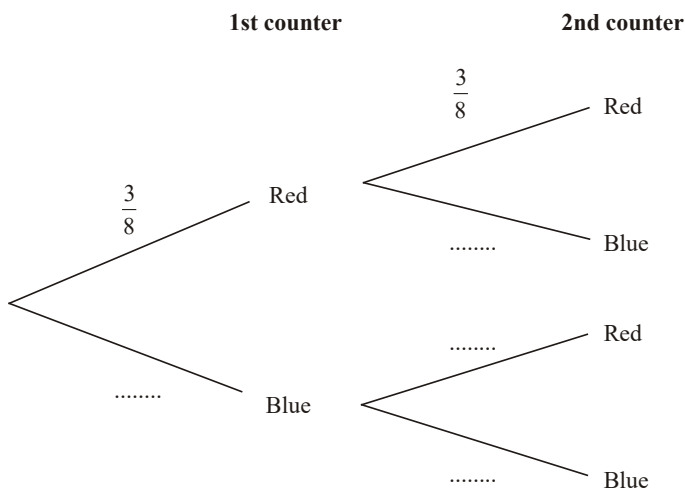
One of the numbers in the diagram is chosen at random.

(b) Find the probability that the number is in set A'

.....

2. Matthew puts 3 red counters and 5 blue counters in a bag. He takes at random a counter from the bag. He writes down the colour of the counter. He puts the counter in the bag again. He then takes at random a second counter from the bag.

(a) Complete the probability tree diagram.



(b) Work out the probability that Matthew takes two red counters.

.....

3. These 6 coins are in a box.

10p	10p	10p	20p	20p	50p
-----	-----	-----	-----	-----	-----

Pritesh takes at random 2 coins from the box.

Work out the probability that the total value of the 2 coins is at least 40p.

.....

4. There are N beads in a jar.
40 of these beads are black.
Julie takes at random a sample of 50 beads from the jar.
5 of the beads in her sample are black.
Work out an estimate for the value of N .

.....

[Glue here]