**Venn Diagrams GREEN**

1. $ξ=\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,$

$$ 12, 13, 14, 15, 16\}$$

$A=$ multiples of 3

$B=$ multiples of 5

a) Complete the Venn diagram.

One of the numbers is selected at random.

b) Write down $P(A∩B)$

………………………………………………………

2. Here is a Venn diagram.

Write down the numbers that are in set:

a) $B$

………………………………………………………

b) $A∪B$

………………………………………………………

c) Write down $P(A')$

………………………………………………………

3. Here is a Venn diagram.

Write down the numbers that are in set:

a) $A∩B$

………………………………………………………

b) $A∪B$

………………………………………………………

c) $A'$

………………………………………………………

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

d) Find the probability that the number is in set $B'$

………………………………………………………

4. Here is a Venn diagram. A number is chosen at random.

a) Write down $P(A∩B')$

………………………………………………………

b) Write down $P(A'∪B')$

………………………………………………………

c) Write down $P(B|A)$

………………………………………………………

**Venn Diagrams AMBER**

1. $ξ=\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,$

$$ 12, 13, 14, 15, 16\}$$

$A=$ multiples of 3

$B=$ multiples of 5

a) Complete the Venn diagram.

One of the numbers is selected at random.

b) Write down $P(A∩B)$



………………………………………………………

2. Here is a Venn diagram.

Write down the numbers that are in set:

a) $B$

………………………………………………………

b) $A∪B$



………………………………………………………

c) Write down $P(A')$

………………………………………………………

3. Here is a Venn diagram.

Write down the numbers that are in set:

a) $A∩B$



………………………………………………………

b) $A∪B$



………………………………………………………

c) $A'$

………………………………………………………

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

d) Find the probability that the number is in set $B'$

………………………………………………………

4. Here is a Venn diagram. A number is chosen at random.

a) Write down $P(A∩B')$

………………………………………………………

b) Write down $P(A'∪B')$

………………………………………………………

c) Write down $P(B|A)$

“The probability of B, given A”

………………………………………………………

**Venn Diagrams RED**

1. $ξ=\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,$

$$ 12, 13, 14, 15, 16\}$$

$A=$ multiples of 3

$B=$ multiples of 5

a) Complete the Venn diagram.

One of the numbers is selected at random.

b) Write down $P(A∩B)$



………………………………………………………

2. Here is a Venn diagram.

Write down the numbers that are in set:

a) $B$



………………………………………………………

b) $A∪B$



………………………………………………………

c) Write down $P(A')$

$P$(?) means “the probability of…”



………………………………………………………

3. Here is a Venn diagram.

Write down the numbers that are in set:

a) $A∩B$



………………………………………………………

b) $A∪B$



………………………………………………………

c) $A'$



………………………………………………………

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

d) Find the probability that the number is in set $B'$



………………………………………………………

4. Here is a Venn diagram. A number is chosen at random.

a) Write down $P(A∩B')$

………………………………………………………

b) Write down $P(A'∪B')$

………………………………………………………

c) Write down $P(B|A)$

“The probability of B, given A”

………………………………………………………