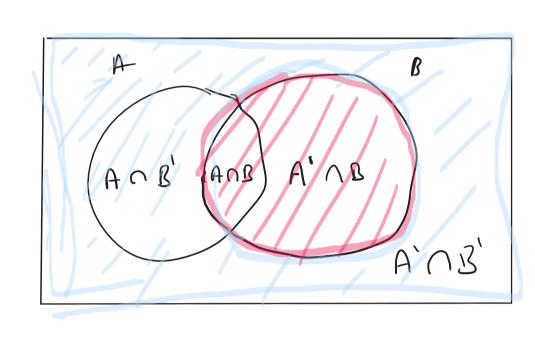


	Α	$\mathbf{A}'$	Total
В	3	2	5
<b>B</b> ′	1	4	5
Total	4	6	10



_	A	A '	Total
ß	ANB	A'OB	B ANB + A'NB =
ß,	Angi	A'NB'	B' - ANB' + A'NB'
Total	A	A	ALL
			sample spale

## Now you try

A number is chosen from the set of positive integers between 1 and 15 inclusive. A is the set of odd numbers between 1 and 15 inclusive and B is the set of prime numbers between 1 and 15 inclusive.

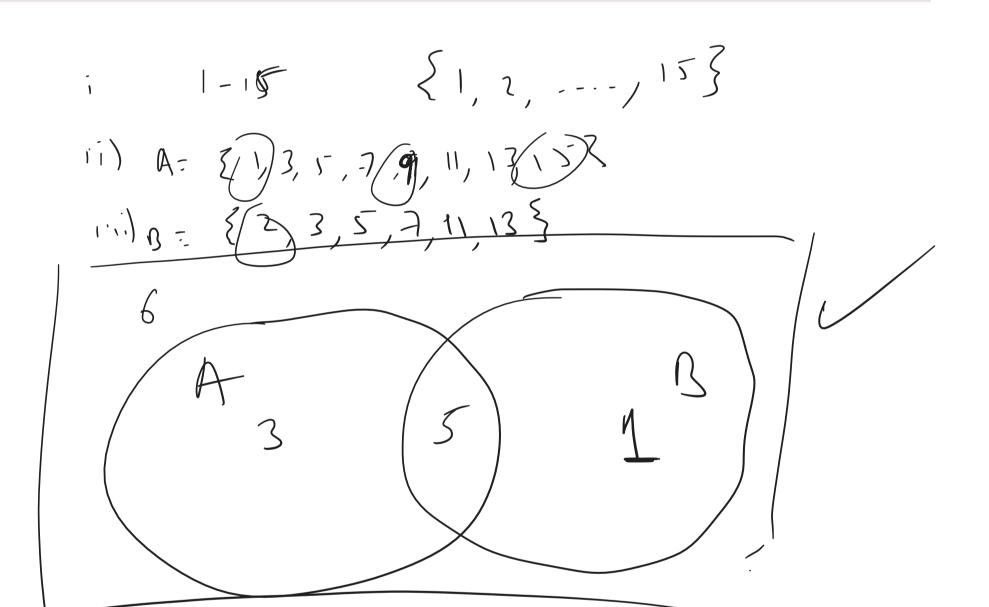
- a List these sets.
- i the sample space **b** Draw a Venn diagram.
- **c** List these sets.
- $\mathbf{i} \quad \mathbf{A} \cap \mathbf{B} \qquad \qquad \mathbf{ii} \quad \mathbf{A} \cup \mathbf{B}$

ii A

iii A'iv B only

iii B

d Find: n(A)ii Pr(A) iii  $n(A \cap B)$  iv  $Pr(A \cap B)$ 



$$(1)$$
  $(3)$   $(3)$   $(4)$   $(4)$ 

$$h(A) = 3 + 5 = 8$$

$$P(A) = \frac{8}{15}$$

$$n(A \cap B) = 5$$

$$P(A \cap B) = \frac{3}{15} = \frac{1}{3}$$

	Α	$\mathbf{A}'$	Total
В	5	2	7
<b>B</b> ′	4	4	8
Total	9	6	15
Total	9	6	15

344	

	A	$\mathbf{A}'$	Total
В	5	8	13
<b>B</b> ′	4	7	86
Total	9	12	2/