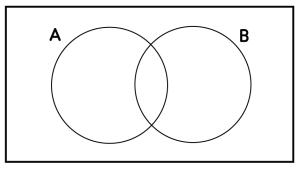
Twig	Set	s: Infinity
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Basic

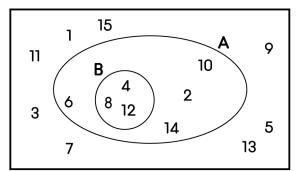
1) Set A = 1, 5, 7, 10, 15 Set B = 2, 5, 8, 10, 12, 15

a) Complete the Venn diagram below by including all the whole numbers between 1 and 15.



b) What is the intersection of A and B?

2) The whole numbers 1 to 15 are included in the Venn diagram below.



a) List Set A.

c) Describe both sets in words.

b) List Set B.

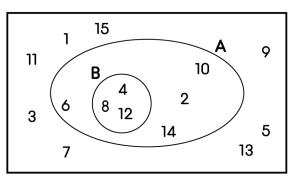
d) What is the complement of Set A?

Twig			Sets: Infir	nit
		Basic		
- x 2	+ 4 >>>			
at will come ou	t of this number machine	if you put in:		
2	b) 5	c) 10	d) 50	
— × 3	-2			
	is number machine if the r	result is:		
	b) 13	c) 31	d) 58	
	-, -	-, -	-,	

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Core

1) The whole numbers 1 to 15 are included in the Venn diagram below.



a) List Set A.

c) Describe both sets in words.

b) List Set B.

d) What is the complement of Set A?

2) The universal set is 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.
Set A = 1, 5, 7, 10, 15.
Set B = 2, 5, 8, 10, 12, 15.

a) Show the above information in a Venn diagram.

b) Give $A \cap B$.

c) Give $A \cup B$.

d) Give A'.

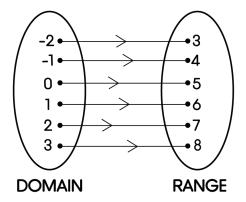


Core

3) Given the domain set as -2, -1, 0, 1, 2, 3 and the range set as 3, 4, 5, 6, 7, 8 as shown in the mapping diagram below:

a) Draw this mapping as a function machine.

b) Give an algebraic function that describes this function.



- 4) a) Draw a similar mapping diagram for the function machine → x2 + 4 → using -2, -1, 0, 1, 2, 3 as the domain the set.
- b) Give the range set for this function.

Twig	Sets: Infinity
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	Advanced
Set A = 1, 5, 7, 10, 1 Set B = 2, 5, 8, 10, 1	
b) Give $A \cap B$.	
c) Give $A \cup B$.	
d) Give A'.	
 2) Given the domain set diagram below: a) Draw this mapping a 	as -2, -1, 0, 1, 2, 3 and the range set as 3, 4, 5, 6, 7, 8 as shown in the mapping a function machine.

b) Give an algebraic function that describes this function.



Advanced 3) a) Draw a similar mapping diagram for the function machine — x2 + 4 → using -2, -1, 0, 1, 2, 3 as the domain the set. b) Give the range set for this function. 4) a) Draw a similar mapping diagram for the function machine x^2 using -1, 0, 1, 2, 3, 4 as the domain the set. b) Give the range set for this function.



Advanced

c) Draw a graph of the range set against the domain.

