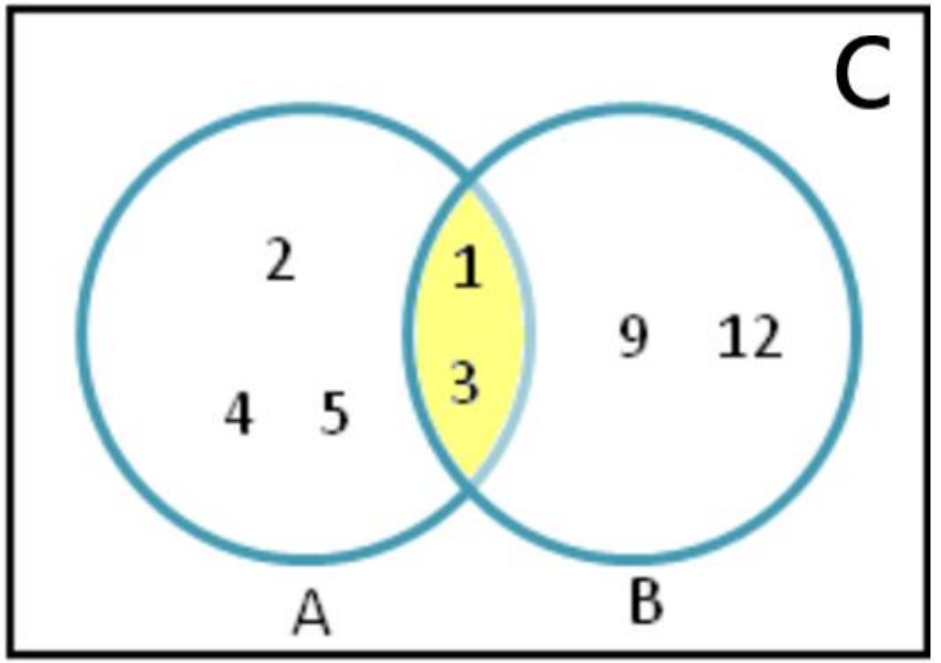
Thursday May 27, 2021 Activator

What region do the numbers {1,2,3,4,5} represent? A

What region do the numbers {1,3,9,12} represent? B

What region do the numbers {9,12} represent? Not A

What region do the numbers {2,4,5} represent? Not B



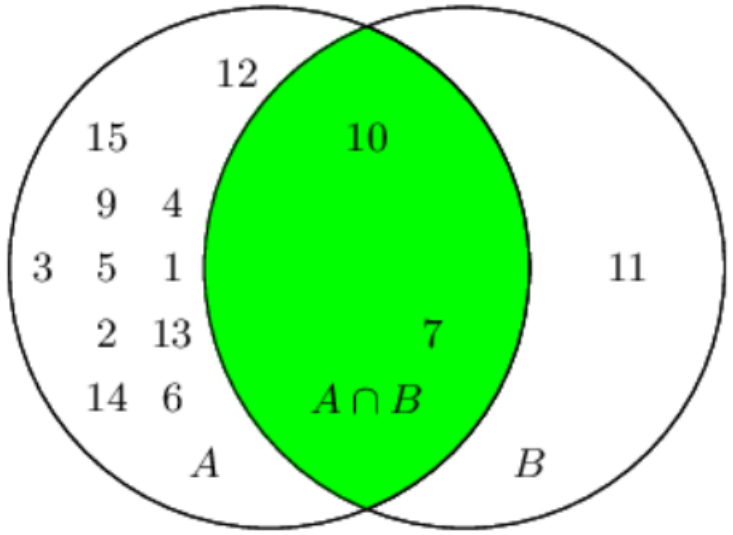
A region is marked by each circle.

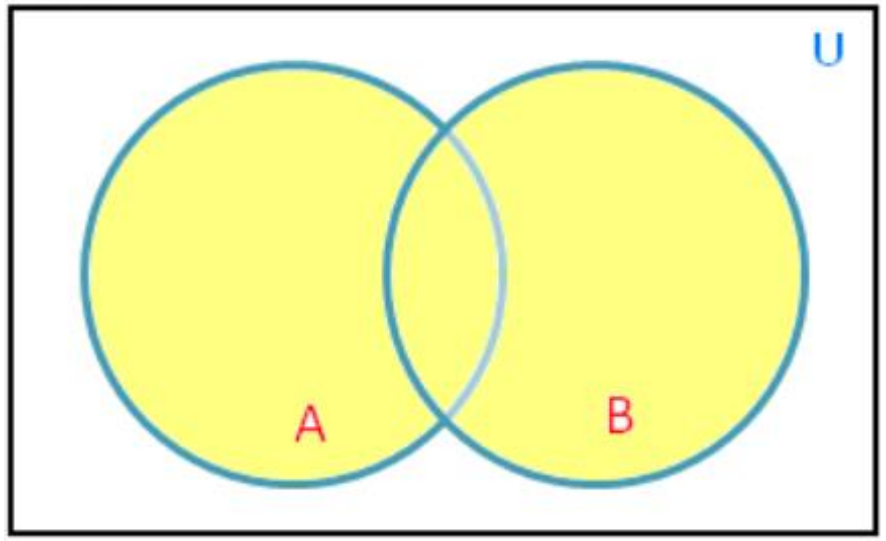
Today's Objective

Unit 3
Lesson 3

Students will be able to calculate probability with unions (u) and intersections (n).

Unit 3.3 Real Life Pictures





A and B

A or B

Intersection (and) A n B

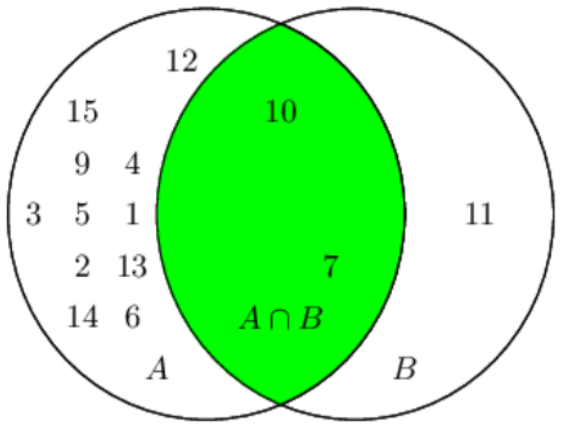
Definition

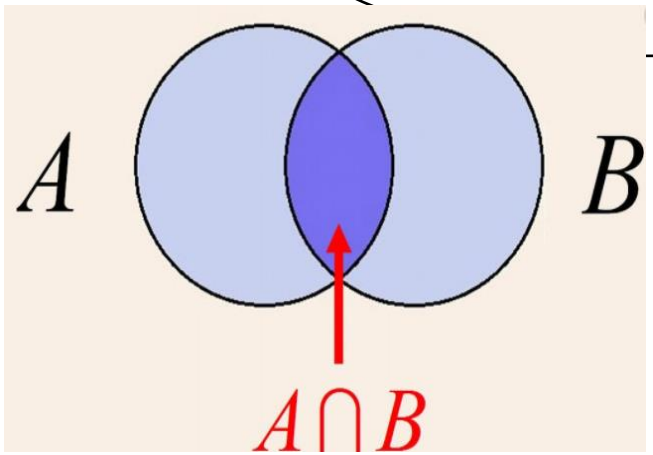
The intersection of A and B is when A and B are the same (or agree).

Facts (1 of 4)

To be in A and B,
Something in A must also be in B.
Something in B must also be in A.

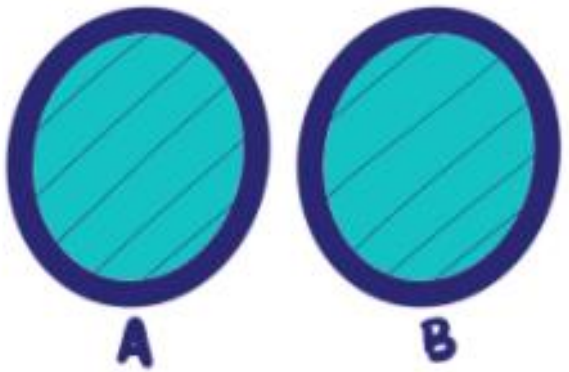
Example(s)





Non-Example(s)

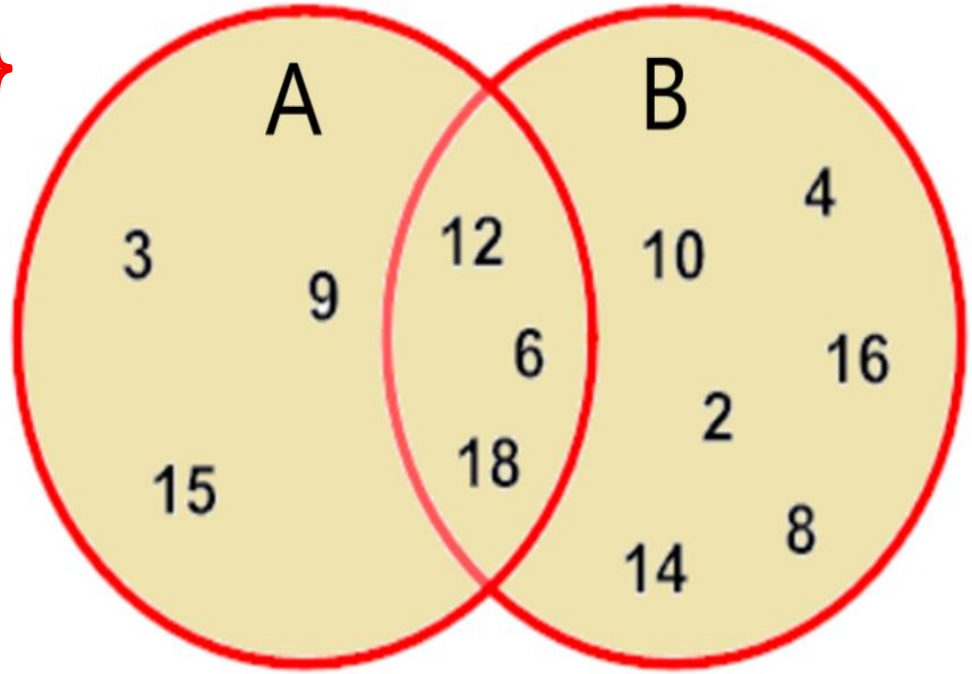
Nothing here is in A and B.



Today's New Vocab (2 of 4)

What is A? {3,6,9,12,15,18}

What is B?
{2,4,6,8,10,12,14,16,18}



What is AnB? {6,12,18}

What is Not A? {2,4,8,10,14,16}

What is Not B? {3,9,15}

Union (or)
A u B

Definition

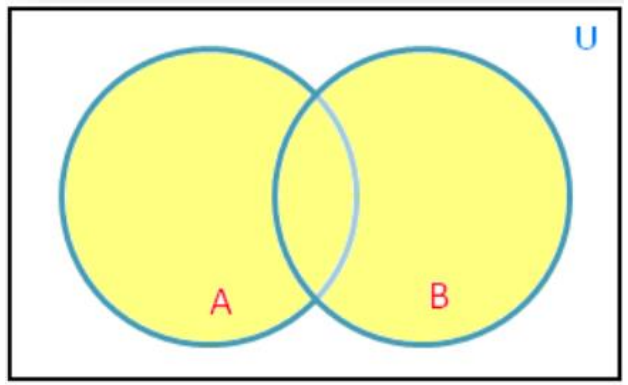
A or B is called the Union. It is when one of the two options are met.

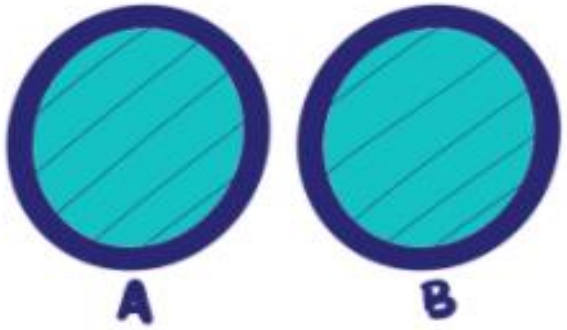
Facts

(3 of 4)

Either A or B must be satisfied. The intersection also meets this requirement.

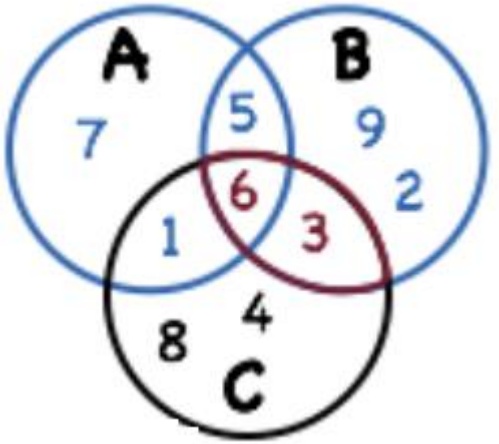
Example(s)





Non-Example(s)

The number 4 is NOT in A or B.



Today's (4 of 4)

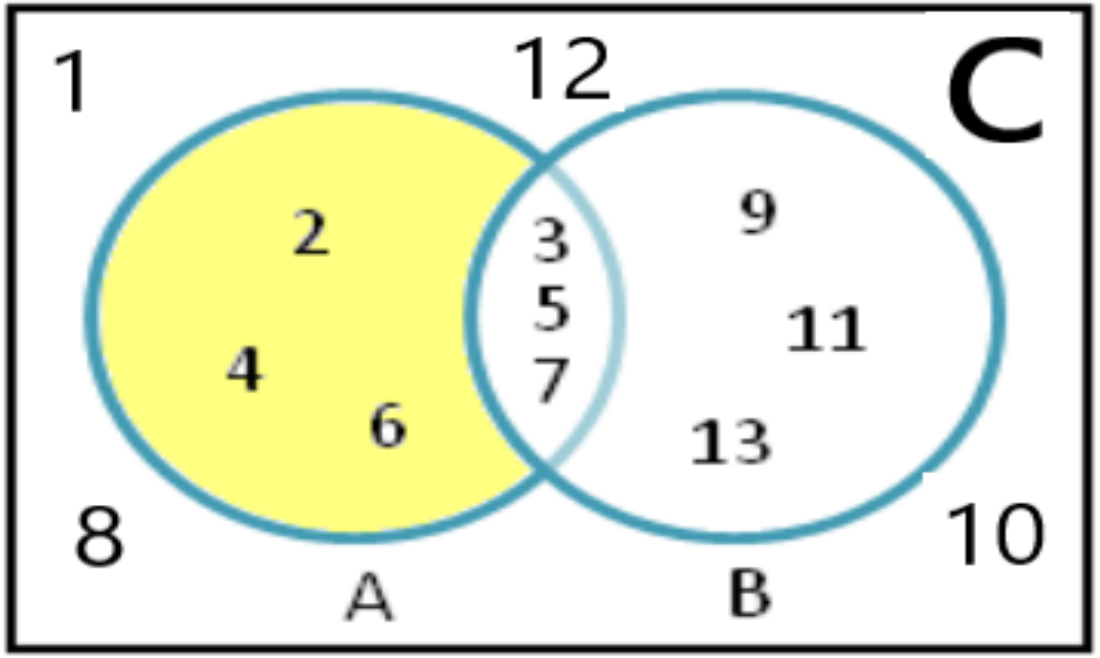
The Union (A or B) = AuB

Is the number 12 in AuB? No

Is the number 4 in AuB? Yes

Is the number 11 in AuB? Yes

Is the number 5 in AuB? Yes



The Intersection (A and B) = AnB

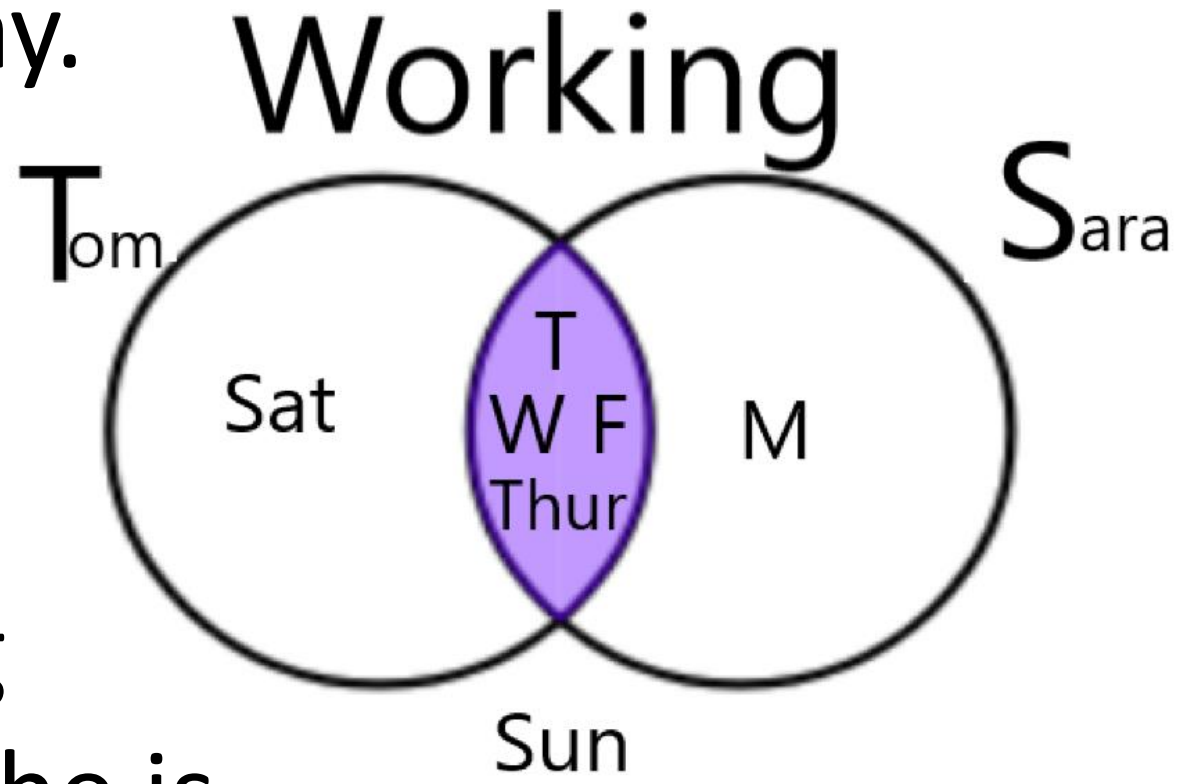
Is the number 12 in AnB? No

Is the number 4 in AnB? No

Is the number 5 in AnB? Yes

Thursday May 27, 2021 Work Period

Tom works Tuesday-Saturday.
Sara works Monday-Friday.
Draw a Picture.

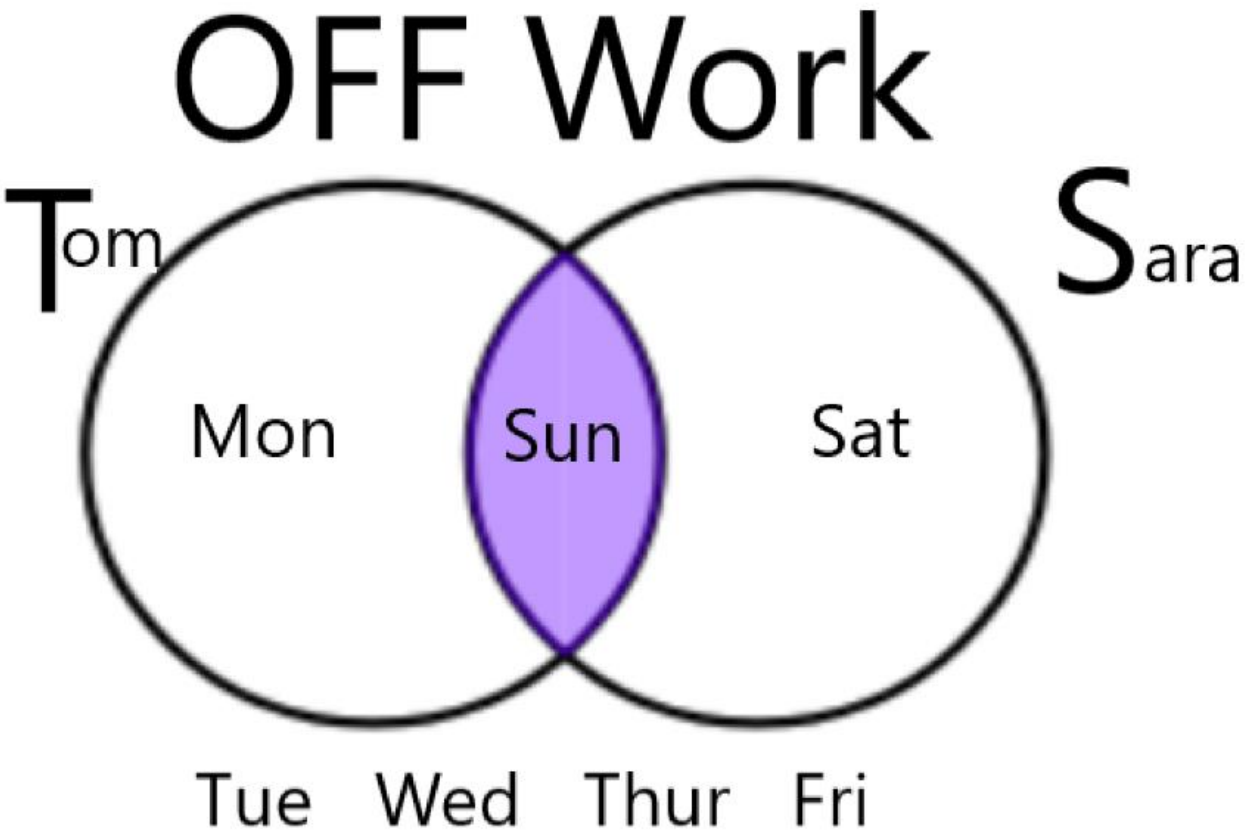


Sara wants to do something when Tom is working, and she is not. What day is best? Saturday
Why? It is the only possible day.

Thursday May 27, 2021 Exit Ticket

Page #12
Lesson 3.3

Tom works Tuesday-Saturday.
Sara works Monday-Friday.
Draw a picture for their OFF Work.



If Tom and Sara want to do something together, what day is best? Sunday.
Why? They both have off.