```
if ( n%3==0  && n%5==0 )
```

↑ and

||

↑ or

---

statements

p, q

p and q $\Leftrightarrow$ $p \wedge q$

p or q $\Leftrightarrow$ $p \vee q$

0 $\Leftrightarrow$ false

1 $\Leftrightarrow$ true

my test score is good

it's raining

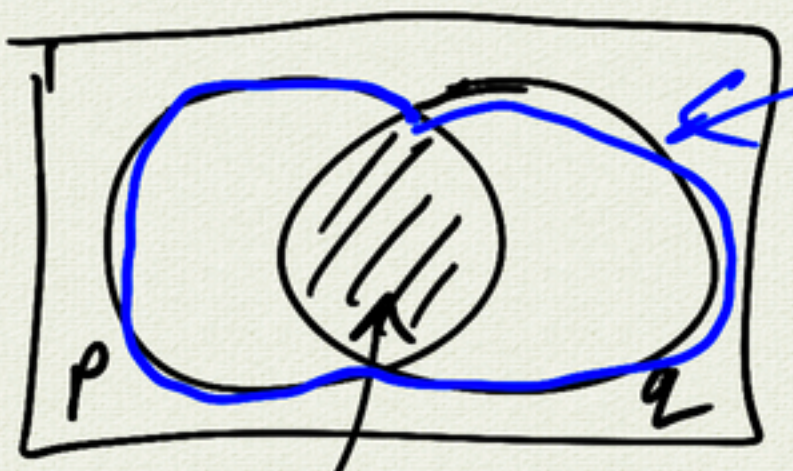
and ∧	q: F	q: T
p: F	F	F
p: T	F	T

and ∧	q: 0	q: 1
p: 0	0	0
p: 1	0	1

← multiplication

or ∨	q: 0	q: 1
p: 0	0	1
p: 1	1	1

← "addition"



$p \cup q$ = set of points in p or q

$p \cap q$ = set of points in p and q

not $\neg$ $\sim$ $!$

$\sim$	
0	1
1	0

$\sim p$

$!p$

De Morgan's Laws

$$\sim(p \wedge q) \iff (\sim p) \vee (\sim q)$$

$$\sim(p \vee q) \iff (\sim p) \wedge (\sim q)$$

$\sim(p \wedge q) \iff \sim p \underset{\text{or}}{\vee} \sim q$

good grade / raining — no good grade / not raining