

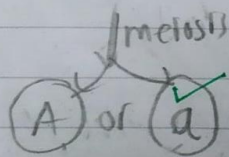
## Mendel's Law of Segregation

Mendel's Law of segregation  
A parent gives just one allele for a gene to each gamete they produce.

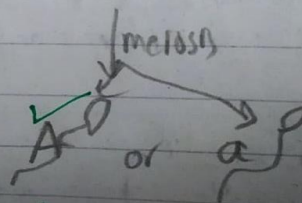
AA  
homozygous

Aa  
heterozygous

Mother  
Aa



Father  
Aa



→ which allele given is random chance

$$(a) + A = \text{zygote } (Aa)$$

→ if dominant allele exists it is expressed.  
Recall punnett square,

	X	X
X	XX	XX
X	XX	XX

X expressed

	X	x
X	XX	Xx
X	XX	Xx

X expressed

	X	x
X	XX	Xx
x	xX	xx

75% X expressed 25% x

	X	x
X	XX	Xx
x	xX	xx

50% X expressed 50% x

	x	x
x	xx	xx
x	xx	xx

x expressed