

# PUNNETT SQUARE RATIOS

## STUDY GUIDE

MCAT GENETICS (C) Leah4Sci.com/MCAT

### Monohybrid Cross $Aa \times Aa$

	A	a
A	AA	Aa
a	Aa	aa

phenotype = 3 : 1  
 3 dominant AA or Aa  
 1 recessive aa

Genotype 1 : 2 : 1

1 homozygous dominant  $1/4 = 25\%$  AA  
 2 heterozygous  $2/4 = 50\%$  Aa  
 1 homozygous recessive  $1/4 = 25\%$  aa

### Dihybrid Cross $AaBb \times AaBb$ think $(Aa \times Aa)(Bb \times Bb)$

	AB	Ab	aB	ab
AB	AA BB	AA Bb	Aa BB	Aa Bb
Ab	AA Bb	AA bb	Aa Bb	Aa bb
aB	Aa BB	Aa Bb	aa BB	aa Bb
ab	Aa Bb	Aa bb	aa Bb	aa bb

phenotype 9 : 3 : 3 : 1

$9/16$  = dominant A + B  
 $AA BB + AA Bb + Aa BB + Aa Bb$   
 $3/16$  = 3 = 1 dominant A with bb  
 $3: AA bb + Aa bb$   
 $3: aa$  with  $BB + Bb$   
 $1/16$  = homozygous recessive aabb

### Genotype

consider above as

$$AA = \frac{1}{4}$$

$$Aa = \frac{2}{4} = \frac{1}{2}$$

	A	a
A	AA	Aa
a	Aa	aa

$$aa = \frac{1}{4}$$

	B	b
B	BB	Bb
b	Bb	bb

Homozygous Dominant =  $\frac{1}{16} = \frac{1}{4} AA \cdot \frac{1}{4} BB$

Homozygous Recessive =  $\frac{1}{16} = \frac{1}{4} aa \cdot \frac{1}{4} bb$

Hetero Aa homo BB or bb  $\frac{2}{16} = \frac{2}{4} Aa \cdot \frac{1}{4} BB$  or  $\frac{2}{4} Aa \cdot \frac{1}{4} bb$

homo AA or aa hetero Bb  $\frac{2}{16} = \frac{1}{4} AA$  or  $\frac{1}{4} aa \cdot \frac{2}{4} Bb$

Heterozygous in Aa + Bb  $\frac{4}{16} = \frac{2}{4} Aa \cdot \frac{2}{4} Bb$

# Mathematics Of Heredity

**Anthony S. Fauci**



## **Mathematics Of Heredity:**

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