Punnett Square Practice			Name:
	No.		Punnett squares and determine the
potential offspring for each se	et of parents. Use	the lines on the	ne right hand side to list the genoty
and phenotype for each pos	sible child.		
		V0.44 2 V V C C C C C C C C C C C C C C C C C	
<ol> <li>A brown-eyed homozygou</li> </ol>			baby with a brown-eyed
heterozygous male (Bb). B	= brown, b = blue	9	
		Canatyna	Phenotype
	_	Genotype	riteriotype
1	Possibility 1:		
1			
	Possibility 2:		
	Possibility 3:		
1			
1	Possibility 4:		
	_		
2. Freckles (F) are dominant	to no freckles (f).	A heterozygo	us mother () and heterozygo
father () have a baby.	F = freckles, f =	no freckles	
		Canatina	Phonetone
	_	Genotype	Phenotype
	Possibility 1:		
			<del></del>
	Possibility 2:		
	Possibility 2: Possibility 3:		
3. The ability to roll your topo	Possibility 2: Possibility 3: Possibility 4:		
	Possibility 2: Possibility 3: Possibility 4:	nant trait. A wa	oman who cannot roll her tongue
() has a baby with a mo	Possibility 2: Possibility 3: Possibility 4:  gue (R) is a dominan who is homoz	nant trait. A wa	oman who cannot roll her tongue
	Possibility 2: Possibility 3: Possibility 4:  gue (R) is a dominan who is homoz	nant trait. A wa	oman who cannot roll her tongue
() has a baby with a mo	Possibility 2: Possibility 3: Possibility 4:  gue (R) is a dominan who is homoz	nant trait. A wa	oman who cannot roll her tongue
() has a baby with a ma	Possibility 2: Possibility 3: Possibility 4:  gue (R) is a dominan who is homoz	nant trait. A wa	oman who cannot roll her tongue nt for this trait ().
() has a baby with a mo	Possibility 2: Possibility 3: Possibility 4: gue (R) is a dominan who is homozet roll tongue	nant trait. A wa ygous domina Genotype	oman who cannot roll her tongue nt for this trait ().
() has a baby with a ma	Possibility 2: Possibility 3: Possibility 4:  gue (R) is a dominan who is homozot roll tongue  Possibility 1:	nant trait. A wa ygous domina Genotype	oman who cannot roll her tongue nt for this trait ().  Phenotype
() has a baby with a mo	Possibility 2: Possibility 3: Possibility 4:  gue (R) is a dominan who is homozot roll tongue  Possibility 1:	nant trait. A wa ygous domina Genotype	oman who cannot roll her tongue nt for this trait ().  Phenotype
() has a baby with a mo	Possibility 2: Possibility 3: Possibility 4:  gue (R) is a dominan who is homozytroll tongue  Possibility 1: Possibility 2:	nant trait. A waygous domina  Genotype	oman who cannot roll her tongue nt for this trait ().  Phenotype
() has a baby with a mo	Possibility 2: Possibility 3: Possibility 4:  gue (R) is a dominan who is homozot roll tongue  Possibility 1: Possibility 2: Possibility 3:	nant trait. A waygous domina  Genotype	oman who cannot roll her tongue nt for this trait ().  Phenotype

## **Punnett Square Practice**

## ANSWER KEY

Directions: Use the scenarios given below to complete the Punnett squares and determine the potential offspring for each set of parents. Use the lines on the right hand side to list the genotype and phenotype for each possible child.

1. A brown-eyed homozygous dominant female (BB) has a baby with a brown-eyed heterozygous male (Bb). B = brown, b = blue

	В	В	Genoty	ре	Phenotypes
[			Possibility 1:	3B	brown eyes
В	BB	BB	Possibility 2: E	зв	brown eyes
- 1			Possibility 3:	Bb.	brown eyes
b	Bb	Bb	Possibility 4: §	Bb	brown eyes
Į			]		

2. Freckles **(F)** are dominant to no freckles **(f)**. A heterozygous mother (Ff) and heterozygous father (Ff) have a baby. F = freckles, f = no freckles

	F	f	Genot	ype	Phenotype
F		T	Possibility 1:	<u>FF</u>	freckles
F FF	Ff	Possibility 2:	<u>Ff</u>	freckles	
f Ff	1		Possibility 3:	<u>ff</u>	no freckles
	ff	Possibility 4:	<u>Ef</u>	freckles	

The ability to roll your tongue (R) is a dominant trait. A woman who cannot roll her tongue (m) has a baby with a man who is homozygous dominant for this trait (RR).
 R = can roll tongue, r = cannot roll tongue

	r	r	Genot	ype	Phenotype
R	Rr	Rr	Possibility 1:	<u>Rr</u>	Can roll tongue
	KI	Ki	Possibility 2:	<u>Rr</u>	Can roll tongue
R Rr	-	1	Possibility 3:	<u>Rr</u>	Can roll tongue
	Rr	Possibility 4:	<u>Rr</u>	Can roll tongue	
- 1					