Match the Parents with the Children!

You will meet four sets of parents who are missing their children! Using the characteristics listed below, you will match the children to their parents.

Firstly you will need to complete the table with which trait is dominant or recessive.

Characteristics	Phenotype	Genotype	Dominant or Recessive?
	Brown eyes	BB or Bb	
Eye Colour	Blue eyes	bb	
Lipir Colour	Brown hair	HH or Hh	
Hair Colour	Red hair	hh	
	Free ear lobes	EE or Ee	
Ear Lobes	Attached ear lobes	ее	
Mid-digit hair	Mid-digit hair	DD or Dd	
	No mid-digit hair	dd	
	Able to roll	TT or Tt	
Tongue Rolling	Can't roll tongue	tt	

1. Who are the parents?

In the tables below, each parent has been listed with their phenotypes and genotypes. Complete a Punnet Square for each of the sets of parents to see what their children could have.

Couple 1: Jen and Zac

Jen's Phenotype	Jen's Genotype	Zac's Phenotype	Zac's Genotype
Blue eyes	bb	Blue eyes	bb
Red hair	hh	Brown hair	Hh
Attached ear lobes	ee	Attached ear lobes	ee
No mid-digit hair	dd	No mid-digit hair	dd
Can't roll tongue	tt	Rolls tongue	TT

Eye Colour			
	b	b	
b			
b			

Hair Colour			
H h			
h			
h			

Ear Lobes			
e e			
е			
e			

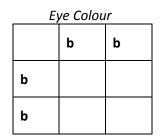
Mid-digit	Hair
iviiu-uigit	nun

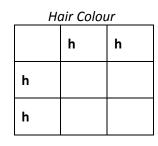
	d	d
d		
d		

	т	т
t		
t		

Couple 2: Kate and Rick

Kate's Phenotype	Kate's Genotype	Rick's Phenotype	Rick's Genotype
Blue eyes	bb	Blue eyes	bb
Red hair	hh	Red hair	hh
Free ear lobes	EE	Attached ear lobes	Ee
Mid-digit hair	DD	No mid-digit hair	dd
Roll tongue	TT	Can't roll tongue	tt





Ear Lobes				
	Ε	е		
E				
E				

Mid-digit Hair			
	d	d	
D			
D			

Tor	igue Rol	ling

	t	t
т		
т		

Couple 3: Tana and Leo

Tana's Phenotype	Tana's Genotype	Leo's Phenotype	Leo's Genotype
Brown eyes	BB	Brown eyes	Bb
Brown hair	нн	Brown hair	нн
Free ear lobes	EE	Attached ear lobes	ee
Mid-digit hair	Dd	Mid-digit hair	DD
Roll tongue	Tt	Can't roll tongue	tt

Eye Colour		

Hair Colour		

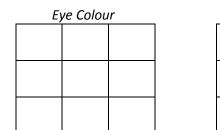
Ear Lobes		

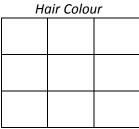
Mid-digit Hair

Tongue Rolling

Couple 4: Steph and Liam

Steph's Phenotype	Steph's Genotype	Liam's Phenotype	Liam's Genotype
Brown eyes	Bb	Brown eyes	BB
Brown hair	НН	Brown hair	Hh
Attached ear lobes	ee	Attached ear lobes	ee
No mid-digit hair	dd	Mid-digit hair	Dd
Roll tongue	TT	Can't roll tongue	tt





Ear Lobes			

Mid-digit Hair		

Tongue Rolling			

2. Who are the Children?

Below are four children and each one belongs to one of sets of parents – but which child matches with which parents? Use the information from the punnet squares you did for the parents to help you out.

Matthew			Nish		
Phenotype	Genotype	What couple had Matt? Why?	Phenotype	Genotype	What couple had Nish? Why?
Blue eyes	bb		Blue eyes	bb	
Red hair	hh		Red hair	hh	
Free ear lobes	Ee		Attached ear	ee	
Mid-digit hair	Dd		lobes		
Roll tongue	Tt		No mid-digit hair	dd	
			Roll tongue	Tt	
Raj			Charlotte		
Phenotype	Genotype		Phenotype	Genotype	

naj			Chanotte		
Phenotype	Genotype	What couple had Raj?	Phenotype	Genotype	What couple had Charlotte? Why?
Brown eyes	BB		Brown eyes	Bb	
Brown hair	НН		Brown hair	НН	
Attached ear	ee	Why?	Free ear lobes	Ee	
lobes			Mid-digit hair	Dd	
No mid-digit hair	dd		Can't roll tongue	tt	
Roll tongue	Tt			1	