Nam	me Da	ıte	Period
	PUNNETT SQUARE POST	TER P	PROJECT
The f	following is a list of genetic traits found in human	beings:	
	 Freckles (F) are dominant to no freckles (2. Separate eyebrows (B) is dominant to conditions. Free earlobes (E) are dominant to attached. Curly hair (HH), straight hair (hh), and was dominance. Widow's peak (P) is dominant to no widow. Thick lips (TT), medium lips (Tt), and this dominance. 	nnected ey ed earlob avy hair (I w's peak (es (e). Hh) exhibit incomplete (p).
A ma	nan has the following characteristics:		
	 a. heterozygous freckles b. heterozygous eyebrows c. attached earlobes d. curly hair e. heterozygous widow's peak f. medium lips 		
His w	wife has the following characteristics:		
	 a. heterozygous freckles b. heterozygous eyebrows c. homozygous free earlobes d. straight hair e. heterozygous widow's peak f. medium lips 		
1.	What is the man's genotype?		
2.	What is the woman's genotype?		
3.	Determine all possible genotypes for the man's HINT: There are 16 different sperm cells.	sperm cel	lls.
4.	Determine all possible genotypes for the woman HINT: There are 16 different egg cells.	ı's egg ce	lls.

5. Using a Punnett Square, determine the % of phenotypes for their children. HINT: There are 24 different possible phenotypes.

6. Sketch and color a drawing of all 24 possible offspring using the attached sheet of paper.

Name	Date	Period	

PUNNETT SQUARE POSTER PROJECT

Component	Points Earned	Point Value
man's genotype		1
woman's genotype		1
16 sperm cells		4
16 egg cells		4
24 offspring phenotypes		16
24 offspring pictures (drawn, colored, fraction)		12
poster-sized Punnett Square		12
TOTAL POINTS EARNED		50

COMMENTS

Name	Dat	te Period
PUNNETT S	SQUARE POST	TER PROJECT
PARENTAL GENOTYPES:		
• MAN'S GENOTYPE =		
• WOMAN'S GENOTYPE	E =	
GAMETE GENOTYPES:		
16 SPERM CEL	LLS	16 EGG CELLS
1	1	
2.	2	
3.	3	
4	4	
5	5	
6.	6	
7.	7. <u>_</u>	
8	8	
9.	9.	
10.	10	
11.	11	
12.	12	
13.	13	
14.	14	
15	15	

16.

16.

Name Date Period	
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PUNNETT SQUARE POSTER PROJECT

OFFSPRING PHENOTYPES:

1.		/ 256
2.		/ 256
3.		/ 256
4.		/ 256
5.		/ 256
6. -		
7.		/ 256
8.		/ 256
9.		/ 256
10.		/ 256
11.		/ 256
12.		/ 256
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14.		/ 256
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