

# Science E-News Report

## New Couple. New Baby.

**Directions:** You are an entertainment news reporter that has just received the inside scoop on the newest celebrity couple. Your teacher has provided you with a top-secret envelope. Inside is a picture of the couple and some of their genetic information. Use the information in the envelope to complete the top portion of this worksheet. When you are done, complete the Punnett Squares below.

**Male (father):**

**Hair Trait:      Genotype:**

**Ear Type:        Genotype:**

**Dimples          Genotype:**

**Freckles:        Genotype:**

**Female (mother):**

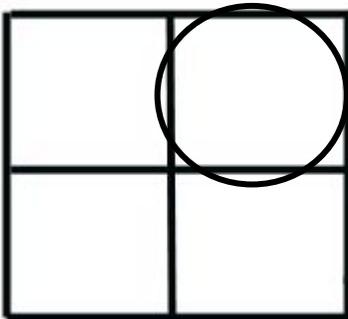
**Hair Trait:        Genotype:**

**Ear Type:        Genotype:**

**Dimples          Genotype:**

**Freckles:        Genotype:**

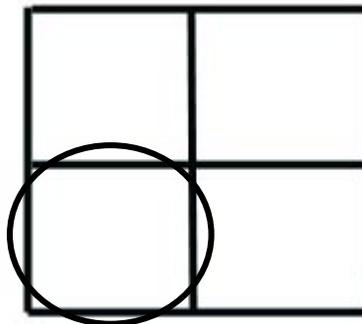
### 1. Hair Type Punnett



1a. What are the possible genetic ratios (given in percent) for their offspring's hair type?

1b. What are all the possible phenotypes for the offspring's hair type?

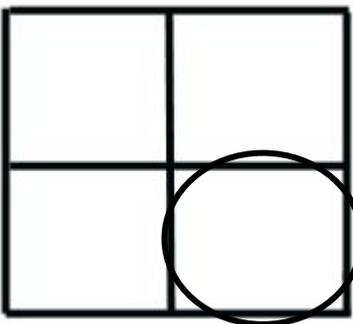
### 2. Ear Punnett Square



2a. What are the possible genetic ratios (given in percent) for the offspring's earlobe type?

2b. What are all the possible phenotypes for the offspring's earlobe?

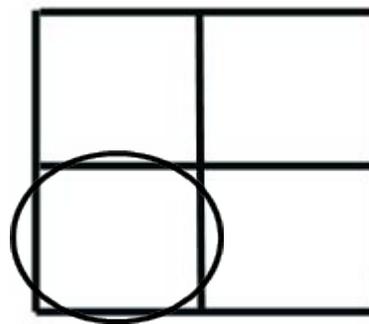
### 3. Dimples Punnett



3a. What are the possible genetic ratios (given in percent) for their offspring to have dimples?

3b. Is it possible for their offspring to have dimples? Why or why not?

### 4. Freckles Punnett



4a. What are all the possible phenotypes for their offspring's?

4b. What are the possible genetic ratios (given in percent) for their offspring's probability to have freckles?

**Writing in Science**

Now that you have completed the Punnett Squares above, locate the section of each Punnett Square that has been circled. The circled section indicates the baby’s genotype. In complete sentences write a brief E-News Report describing what the baby will look like. For each trait explain how the parent’s alleles resulted in the trait expressed in their offspring.

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**More Practices**

1. Being able to roll your tongue is a dominant trait (R) while non-rolling is a recessive trait (r). Holly Wood, who is a non-roller marries a Joe Time who is heterozygous for tongue rolling.

Father’s phenotype \_\_\_\_\_ Mother’s phenotype \_\_\_\_\_

Father’s genotype \_\_\_\_\_ Mother’s genotype \_\_\_\_\_


What is the probability of this couple having a child who is a tongue roller? \_\_\_\_\_

2. Separated eyebrows (E) in humans are dominant to unibrows (e). If a man with a unibrow, whose mother had separated eyebrows, marries a woman whose parents were both homozygous dominant for eyebrow shape; what is the probability that the couple will have a child with a unibrow?