Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Period\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

COIN FLIP GENETICS

1. Make a Punnett square for a heterozygous (hybrid) tall pea plant with a heterozygous (hybrid) tall pea plant.

|  |  |
| --- | --- |
|  |  |
|  |  |

1. Calculate the following percentages: (each square is 25%)

TT = \_\_\_\_\_\_\_\_\_%

Tt = \_\_\_\_\_\_\_\_\_%

tt = \_\_\_\_\_\_\_\_\_\_%

1. Coin Flip:
2. Flip two coins
3. If it lands on heads, it is a capital T.
4. If it lands on tails, it is a lower case t.

--For example: two heads = TT, or heads and a tails = Tt, two tails = tt

1. Place a tally mark in the table below that represents the coin flip.
2. Complete 100 flip trials (you should have a total of 100 tally marks.)
3. Record the percentages---which is the number of flips for each.

|  |  |  |
| --- | --- | --- |
| TT | Tt | tt |
|  |  |  |
| % | % | % |

Coin Flip Data Table

1. Look at the percentage of TT in both your Punnett square and the coin flip data.

Compare the two:

TT Tt tt

\_\_\_\_\_% Punnett square \_\_\_\_% Punnett square \_\_\_\_% Punnett square

\_\_\_\_\_% coin flip data \_\_\_\_% coin flip data \_\_\_\_% coin flip data

How are the Punnett square %s and the coin flip data related?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_