Monohybrid Crosses for the Dragon Family

Report data in percentages. Example: Genotype HH $\frac{1/4 = 25\%}{}$

| <u> </u> | | | | | |
|--|--------------------------------|---|---|--|--|
| 1. Calculate the chances of inheritance for presence of horns. | Trait: presence of horns | Н | Н | | |
| Genotype | | | | | |
| HH | h | | | | |
| Hh | | | | | |
| hh | | | | | |
| <u>Phenotype</u> | | | | | |
| Horns | n | | | | |
| No horns | | | | | |
| | | | | | |
| | | | | | |
| 2. Calculate the chances of inheritance for presence of horns. | Trait: presence of horns | Н | h | | |
| inheritance for presence of | | Н | h | | |
| inheritance for presence of horns. | presence | Н | h | | |
| inheritance for presence of horns. Genotype | presence | Н | h | | |
| inheritance for presence of horns. Genotype HH | presence of horns | Н | h | | |
| inheritance for presence of horns. Genotype HH ————— | presence of horns | Н | h | | |
| inheritance for presence of horns. Genotype HH Hh hh | presence of horns | H | h | | |

| 3. Calculate the chances of sharp-tip and round-tip scale inheritance. Genotype | Trait: shape of scale tips | T | T |
|--|----------------------------------|---|---|
| TT Tt tt | Т | | |
| Phenotype Sharp-tip Round-tip | Τ | | |
| 4. Calculate the chances of sharp-tip and round-tip scale inheritance. Genotype | Trait: shape of scale tips | Т | Т |
| TT Tt tt | Т | | |
| PhenotypeSharp-tipRound-tip | t | | |

| 5. Calculate the chances of sharp-tip and round-tip scale inheritance. Genotype | Trait: shape of scale tips | T | t |
|--|----------------------------------|---|---|
| TT | Т | | |
| tt | | | |
| <u>Phenotype</u> | • | | |
| Sharp-tip | t | | |
| Round-tip | | | |
| Observations and Inferences | | | |