#### Mendelian Genetics Worksheet

Fill in the Punnett squares for each cross given to determine the phenotype and genotype ratios of the offspring

#### Crosses with one homozygous dominant parent:

|   | AA x AA |    |  |
|---|---------|----|--|
|   | A       | А  |  |
| A | AA      | AA |  |
| A | AA      | AA |  |

| AA x Aa |    |    |
|---------|----|----|
|         | А  | А  |
| A       | AA | AA |
| a       | Aa | Aa |

|   | AA | coa A |
|---|----|-------|
| - | A  | A     |
| a | Aa | Aa    |
| а | Aa | Aa    |

#### Offspring Genotypes:

AA 4 Aa Qaa Q

#### Offspring Phenotypes:

Dominant 4

Recessive 0

| $A_iA_i$ | 2 | Aca | 2 | 0.0 | 0 |
|----------|---|-----|---|-----|---|
|----------|---|-----|---|-----|---|

Dominant 4
Recessive 0

 $Aa \times Aa$ 

| AA,          | m.    | Am         | al. | (0) (0)     | m:    |
|--------------|-------|------------|-----|-------------|-------|
| and the same | - 100 | the second | -   | Accessed to | - 100 |

Dominant 4

Recessive 0

#### Crosses with one heterozygous parent; Aa x AA

|   | А  | а  |
|---|----|----|
| А | AA | Aa |
| А | AA | Aa |

| A |    | a  |  |
|---|----|----|--|
| A | AA | Aa |  |
| a | Aa | aa |  |

| Α |    | a  |
|---|----|----|
| а | Aa | aa |
| a | Aa | aa |

 $Aa \times aa$ 

#### Offspring Genotypes:

AA 2 Aa 2 aa 0

#### Offspring Phenotypes:

Dominant 4

Recessive 0

### AA 1 Aa 2 aa 1

Dominant 3

Recessive 1

#### AA 0 Aa 2 aa 2

Dominant 2
Recessive 2

# **Answers For Study Guide Section 2 Mendelian Genetics**

**J Dewey** 

## **Answers For Study Guide Section 2 Mendelian Genetics:**

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