



2.4 2.4.1 Spotted✓back (1)

2.4.2 Spotted frogs produced offspring without spots✓✓

**OR**

The spotted offspring were three times more than offspring without spots✓✓ / ratio of spotted offspring to offspring without spots is 3:1 (2)

2.4.3 **P<sub>1</sub>** Phenotype Spotted x No spots✓  
Genotype Dd x dd✓

*Meiosis*

**G/gametes** D, d x d, d ✓

*Fertilisation*

**F<sub>1</sub>** Genotype  $\begin{array}{|c|c|c|c|} \hline D & d & & \\ \hline \end{array}$  :  $\begin{array}{|c|c|} \hline d & d \\ \hline \end{array}$  ✓  
 $\begin{array}{|c|c|} \hline Dd & Dd \\ \hline \end{array}$  :  $\begin{array}{|c|c|} \hline dd & dd \\ \hline \end{array}$  ✓\*

Phenotype (2) spotted : (2) without spots✓\*

P<sub>1</sub> and F<sub>1</sub>✓  
Meiosis and fertilisation✓

**2 Compulsory + Any 4 others**

