

## Inheritance /44

### Q1.

In fruit flies, males have the sex chromosomes XY and the females have XX. In fruit flies, a gene for eye colour is carried on the X chromosome. The allele for red eyes, **R**, is dominant to the allele for white eyes, **r**.

- (a) Male fruit flies are more likely than female fruit flies to have white eyes.

Explain why.

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(2)

- (b) A female fruit fly with white eyes was crossed with a male fruit fly with red eyes to produce a large number of offspring.

Tick (✓) **one** box next to the statement which correctly describes the phenotypes produced from this cross.

All offspring red-eyed

☐

All females red-eyed, all males white-eyed

☐

All males red-eyed, all females white-eyed

☐

All males white-eyed, females red-eyed and females white-eyed

☐

(1)

In fruit flies, the genes for body colour and for wing development are **not** on the sex chromosomes. The allele for grey body colour, **G**, is dominant to the allele for black body colour, **g**. The allele for long wings, **L**, is dominant to the allele for short wings, **l**.

A geneticist carried out a cross between fruit flies with grey bodies and long wings (heterozygous for both genes) and fruit flies with black bodies and short wings.

The table below shows the results of this cross.

# Chemistry Unit 4 2013 Unofficial Mark Scheme

**Thushan Hettige**



**Chemistry Unit 4 2013 Unofficial Mark Scheme:**

**13+ Science Level 2 Chemistry Mark Scheme (Summer Term 2013)** Iseb Iseb, 2013-03-21      **Chemistry Unit 4, 2nd Edition** Bright Thinker, 2024-08      **Pearson Chemistry Unit 4** Staley Wilbraham (Matta, Waterman), 2022  
*Chemistry* Thushan Hettige, 2012      *Supplying and Using Energy and Food Chemistry* Malcolm Hunt, Russell Owen Cosgriff, 2000

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