

Chapter 13

Answers

QUICK-CHECK questions

- 1 List two types of variation that may be seen in populations of dogs.**

Examples of variation in dog populations include:

- black/yellow coat colour
- black/liver coat colour
- presence/absence of body hair
- presence/absence of white spotting
- long/short leg length.

- 2 Give an example of developmental variation in:**

- a a plant species**

One example of developmental variation in a plant species is the change from green, unripe fruit to red, ripe fruit in blackberries (see figure 13.12).

- b a bird species.**

One example of developmental variation in a bird species is the change in plumage as seagulls develop from juveniles to adults.

- 3 Give an example of a population that:**

- a is polymorphic for a trait**

Any population that shows two or a few discrete inherited variations for a trait is said to be polymorphic; an example is lupin populations that show purple and pink flower colour.

(In contrast, in a monomorphic population, all members are uniform for a particular trait; an example is the pink and grey plumage of galahs (see figure 13.13).)

- b shows discontinuous variations in a trait.**

Discontinuous variation occurs in a population when a small number of discrete, non-overlapping variants of a trait exist. For example, in a human population, people fall into one of four distinct ABO blood types; they may be group A or group B or group AB or group O.

(Note: This is just one of many example of discontinuous variation that can be seen in plant and animal populations. Table 13.4 lists some other examples.)

- 4 At different times of the year, members of a population of water fleas (*Daphnia* sp.) vary in the size and shape of their outer head covering.**

- a Is this likely to be an inherited variation? Explain.**

The change in head shape and size is most likely to be an environmental variation since the change is seasonal, occurring at certain times of the year. However, the ability to make this change is an inherited characteristic that has evolved in only some *Daphnia* species.

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