



Here are 6 different rabbits waiting to go to a home. They are in a pen in a pet shop. You'll see 2 brown, 2 black and 2 grey. There is a floppy-eared one and an ordinary one of each colour.

Let's imagine that rabbits can only be one of these 6 different kinds and there are no other kinds of rabbits. Then:

1. How many, and of what kind, will there be in a pen if all these statements are true? [10 marks]

- There are more brown than any other colour
- There are equal numbers of floppy browns and ordinary browns
- There are three which have floppy ears
- There are twice as many floppy browns as floppy greys
- There are three times as many blacks as greys

2. How many, and of what kind, will there be in the second shop if all these statements are true? [10 marks]

- There are the same number of blacks as browns
- There are twice as many floppy browns as ordinary browns
- There are the same number of floppy browns as floppy greys
- All but one are floppy.
- There is more than one rabbit.