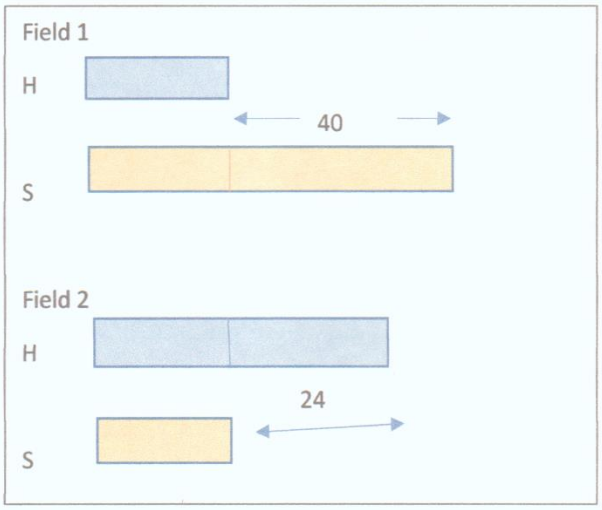
Mr C's solution

5 Some animals are put into two fields.

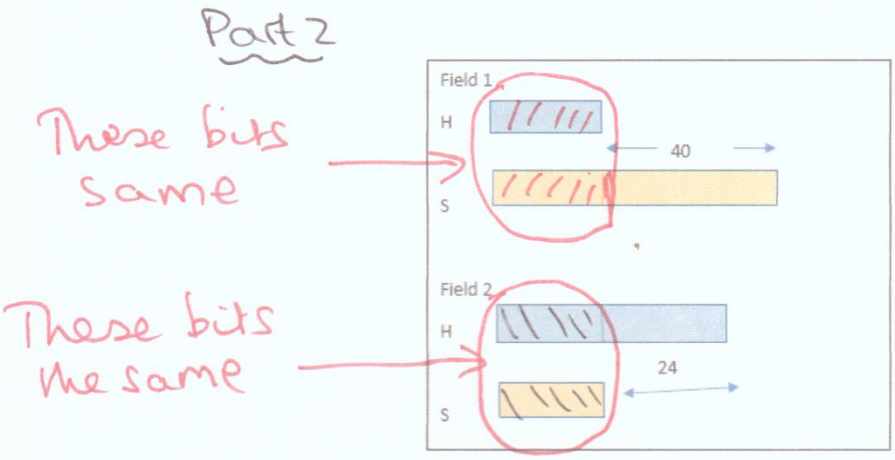
- There are the same total number of animals in each field.
- In the first field there are 40 more sheep than horses
- In the second field there are 24 more horses than sheep.
- $\frac{4}{7}$ of all the animals are sheep.

How many horses are there in each field?

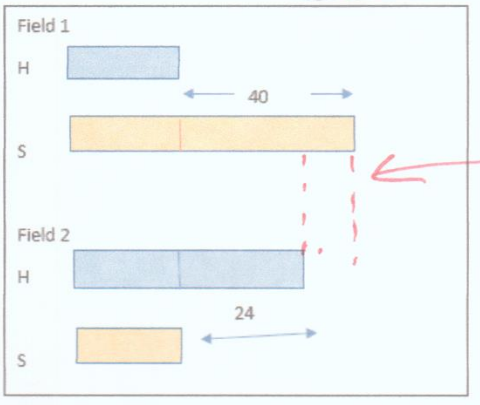
Part 1



Part 2



Part 3



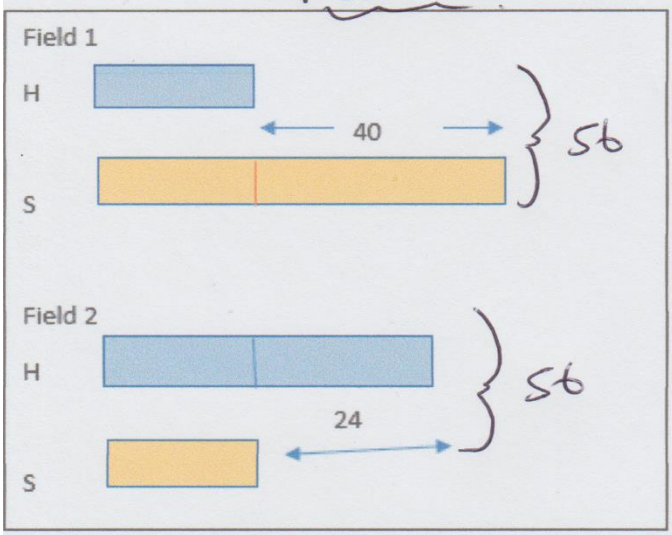
Difference between horses and sheep is 40 − 24 = 16.

$\frac{3}{7}$ horses

$^4/_7$ sheep

$^1/_7$ is the fraction difference between horses and sheep. This $^1/_7$ is 16 animals.

Part 4



If $^{1}/_{7}$ of all animals is 16 animals, then the total of all animals is $^{7}/_{7}$ which is 16 x 7.

10 x 7 =70

6 x 7 = 42

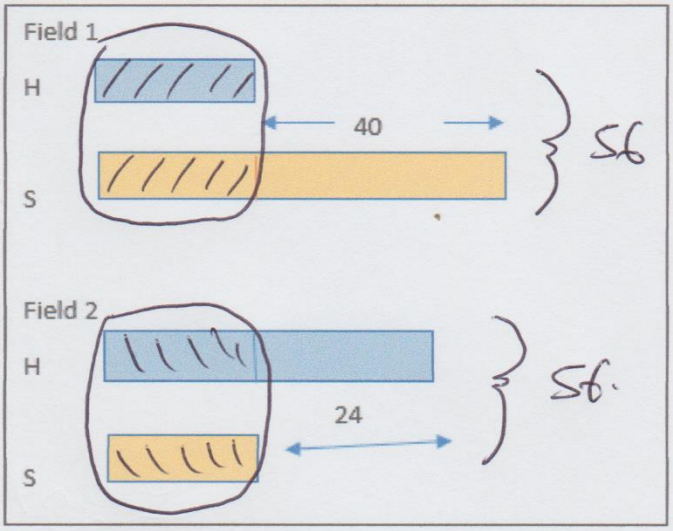
So 16 x 7 = 112

Field 1 and field 2 both have the same number of animals, so each field has 112 ÷ 2 animals which is 56 in each field.

Part 5

This part is 56-40= 16

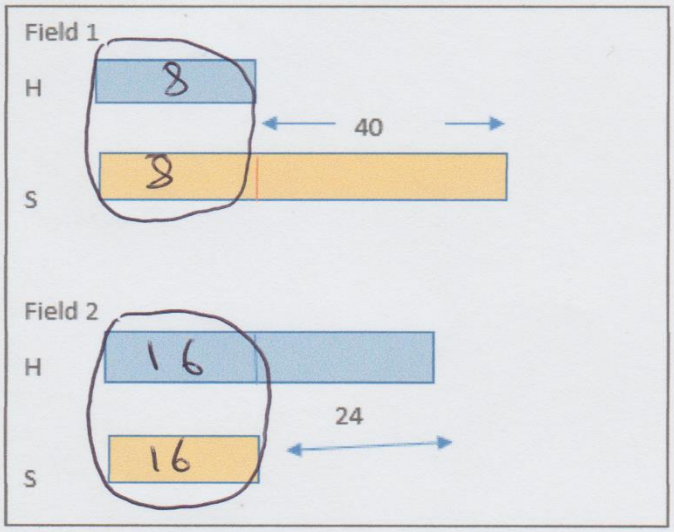
This part is 56-24=32



Part 6

16 ÷2 =8

32 ÷2 = 16



Answer:

8 horses in field 1

16 + 24 horses in field 2 = 40 horses in field 2

Remember to send me your solutions! This one was a real toughie!