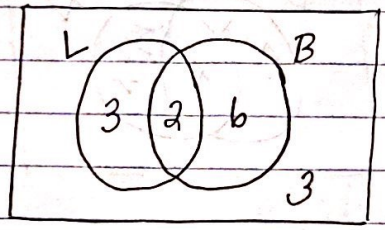
HW 2H (HL): 1, 4, 7, 8, 9 (SL): 1, 4, 8, 9, 10

1.) 14 cavies total, 5 long hair, 8 brown, 2 brown & long hair

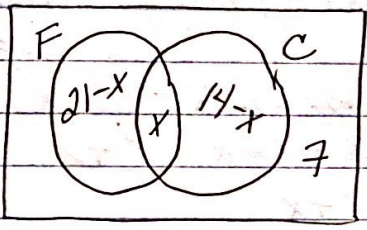
a.)



b.) i. [9] ii. [3] iii. [3]

(6 + 3)

4.) 38 total stalls, 21 Food, 14 Craft, 7 neither

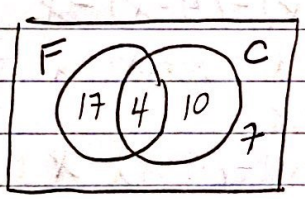


a.) $38 = 21 - x + x + 14 - x + 7$

$38 = 42 - x$

$-4 = -x$

$\therefore x = 4$ sell both food and craft

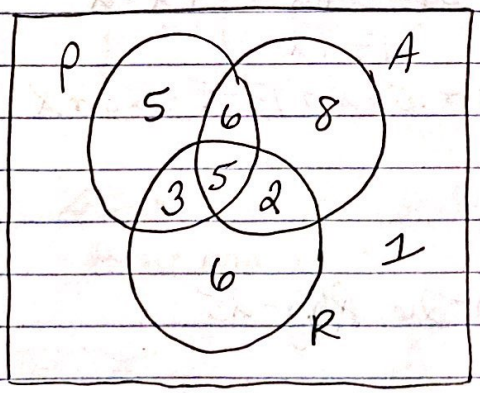


b.) only food = 21 − 4 = 17

only craft = 14 − 4 = 10

$\therefore 17 + 10 =$ [27]

7.)



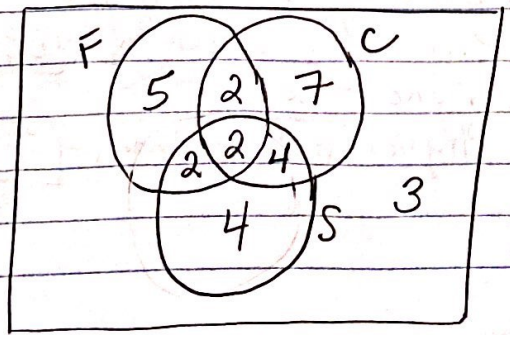
a.) $19 + 21 - 11 =$ [29]

b.) [6]

c.) [1]

d.) $3 + 6 + 2 =$ [11]

8.)



$29 - 3 = 26$

$26 = 11 + 15 + 12 - 4 - 4 - 6 + x$

$26 = 24 + x \quad \therefore x = 2$

b.) i. [2] ii. [4] iii. [4]

iv. $5 + 7 + 4 =$ [16]

9.) 21 total farms, 15 crops, 9 cattle, 11 sheep
(R) (C) (S)
$S \cap C = 4$, $R \cap C = 7$, $R \cap S = 8$, 2 none

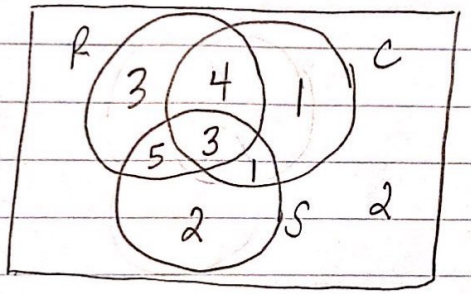
$21 = 15 + 9 + 11 - 4 - 7 - 8 + 2 + n(R \cap C \cap S)$

$21 = 35 - 19 + 2 + n(R \cap C \cap S)$

$21 = 18 + n(R \cap C \cap S)$

$3 = n(R \cap C \cap S)$

a.)



b.) i.) 3

ii. $1 + 1 + 2 =$ 4

iii. $5 + 4 =$ 9