



$\xi = 100$  farmers  
 $C =$  farmers that keep cattle  
 $S =$  farmers that keep sheep

76 farmers keep only cattle or only sheep.

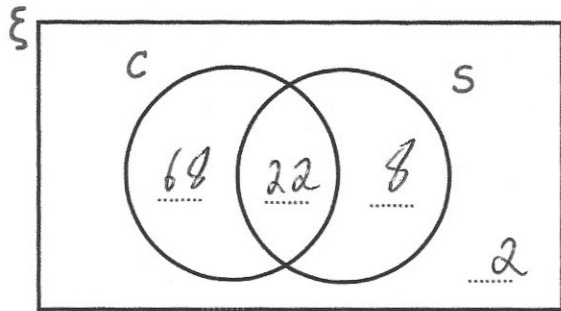
$\frac{2}{19}$  of these 76 farmers only keep sheep

The number of farmers that keep cattle is three times the number that keep sheep.

Complete the Venn Diagram

$$3(y+8) = y+68$$

$$3y+24 = y+68$$



$$2y = 44$$

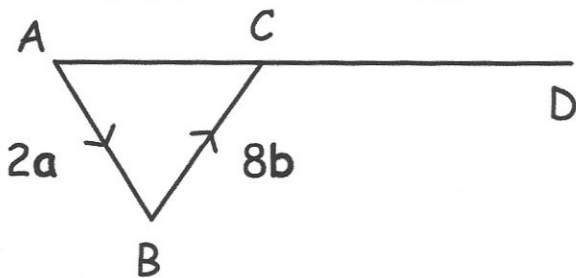
$$y = 22$$

Make  $m$  the subject

$$w = \frac{x}{m} - 7 \quad w+7 = \frac{x}{m}$$

$$m(w+7) = x$$

$$m = \frac{x}{w+7}$$



$$\vec{AB} = 2\mathbf{a} \quad \vec{BC} = 8\mathbf{b}$$

ACD is a straight line such that  
 $AC : CD = 2 : 5$

Write down the vector  $\vec{AC}$  in terms of  $\mathbf{a}$  and  $\mathbf{b}$

$$2\mathbf{a} + 8\mathbf{b}$$

Write down the vector  $\vec{AD}$  in terms of  $\mathbf{a}$  and  $\mathbf{b}$

$$(2\mathbf{a} + 8\mathbf{b}) \div 2 = \mathbf{a} + 4\mathbf{b}$$

$$(\mathbf{a} + 4\mathbf{b}) \times 5 = 5\mathbf{a} + 20\mathbf{b}$$

$$7\mathbf{a} + 28\mathbf{b}$$