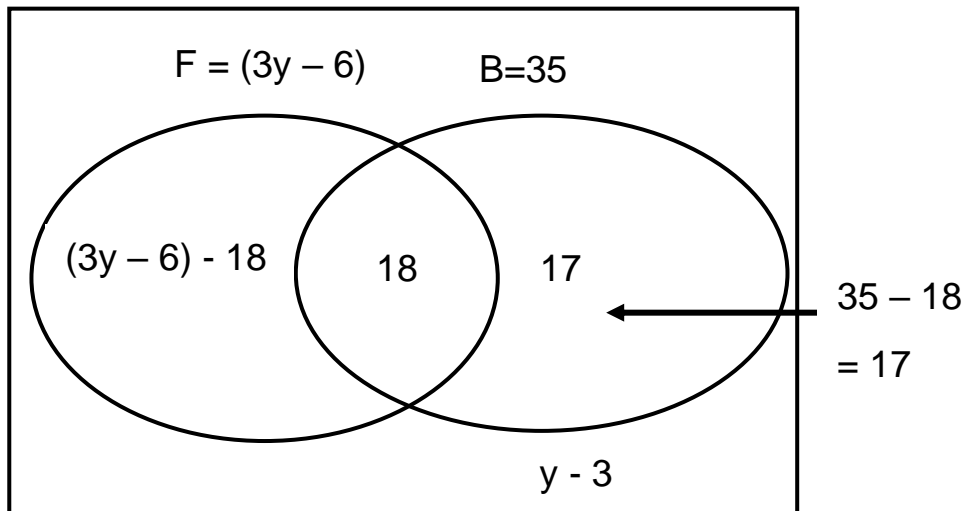


Lesson seven

In a class, 35 students like beef (B), $(3y - 6)$ like fish (F); 18 like both beef and fish while $(y - 3)$ do not like any of the two dishes.

a) Draw and complete the venn diagram below.



If 29 students like only one type of dish, find the value of y .

b) $(3y - 6) - 18 + 17 = 29$

$$3y - 6 - 18 + 17 = 29$$

$$3y + 17 - 24 = 29$$

$$3y - 7 + 7 = 29 + 7$$

$$\frac{3y}{3} = \frac{36}{3}$$

$$\underline{y = 12.}$$

c) Find the number of students in the class.

$$(3y - 6) - 18 + 18 + 17 + y - 3$$

$$(3 \times 12 - 6) + 17 + 12 - 3$$

$$(36 - 6) + 17 + 9$$

$$30 + 26$$

$$\underline{56 \text{ pupils.}}$$