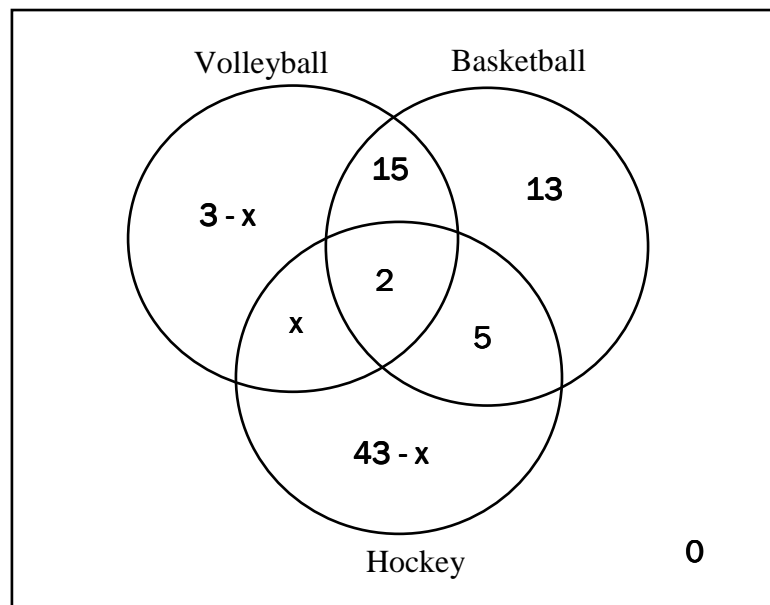3   36(a).   There are 79 children who play sports at the recreation centre.
- 20 play volleyball
- 35 play basketball
- 50 play hockey
- 15 play only volleyball and basketball
- 5 play only basketball and hockey
- 2 play all three

Draw a Venn diagram to illustrate this information and use it to determine how many children just play hockey.

Venn Diagram (0.5 mark)

$$(3 - x) + x + 17 + 18 + (43 - x) = 79 \text{ (1 mark)}$$
$$81 - x = 79 \text{ (0.5 mark)}$$
$$x = 2$$
$$x = 2 \text{ (0.5 mark)}$$

The # of children who play hockey only is 43-2 = 41 (0.5 mark)