



**18** A school has 86 teachers.

42 are male and 44 are female.

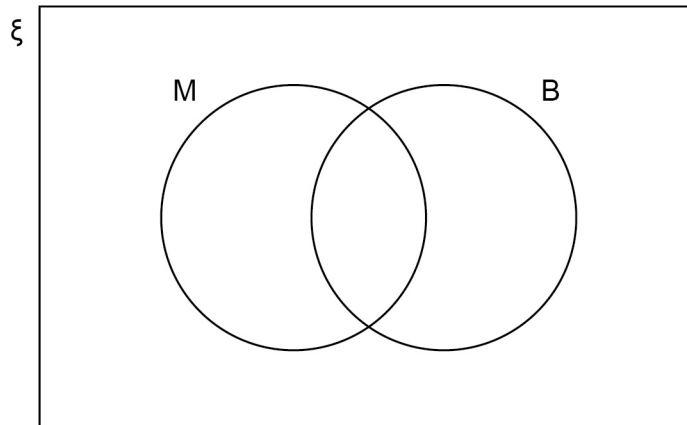
$\frac{1}{3}$  of the male teachers have blue eyes.

$\frac{1}{4}$  of the female teachers have blue eyes.

**18 (a)**  $\xi$  = teachers in the school

M = male teachers

B = teachers who have blue eyes



Complete the Venn diagram.

**[3 marks]**

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**18 (b)** One teacher who has blue eyes is chosen at random.

Work out the probability that the teacher is male.

**[1 mark]**

Answer \_\_\_\_\_

