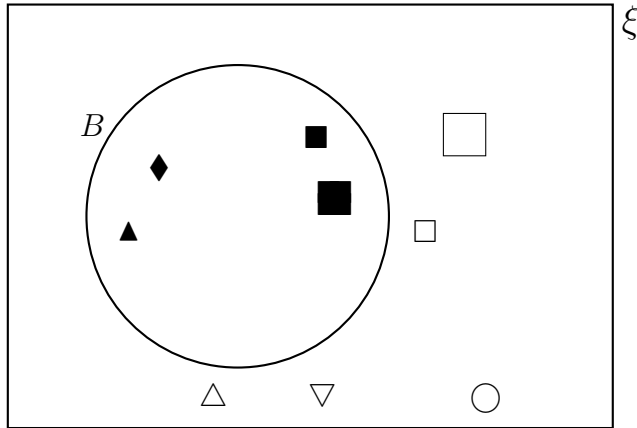1. The teacher says: "In this Venn diagram, B is the set of black shapes"

The teacher writes:

$$B = \{\text{black shapes}\}$$
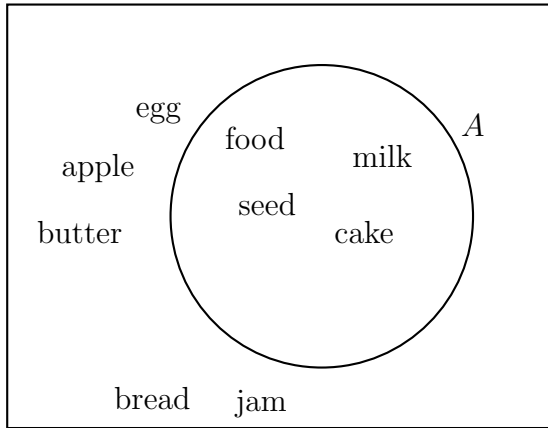
(i) Tick the correct statement

     $\bigstar \in B$ "$\bigstar$ is a member of B"

     $\bigstar \in B'$ "$\bigstar$ is a member of not B"

(ii) Add the shape $\bigstar$ to the Venn diagram

2. The teacher says: "In this Venn diagram, A is the set of words with exactly four letters"
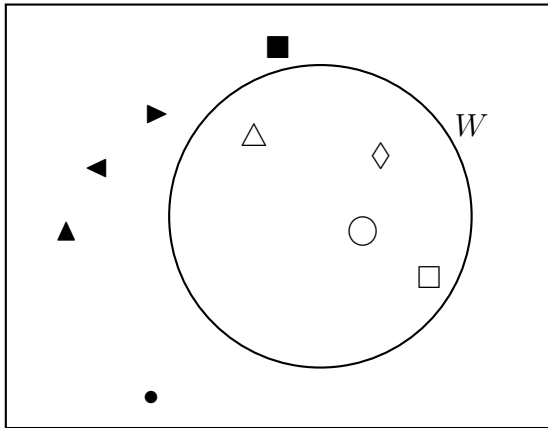

The teacher writes:

$$A = \{4 \text{ letter words}\}$$

(i) Tick the □ with the correct statement

     □ hello $\in A$ "hello is a member of A"

     □ hello $\in A'$ "hello is a member of not A"

(ii) Add the word **hello** to the Venn diagram

3. The teacher says: "In this Venn diagram, W is the set of white shapes"

ξ

The teacher writes:

$W = \{\text{white shapes}\}$
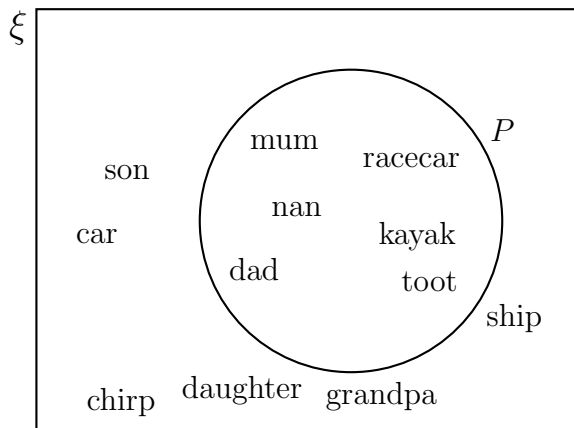
(i) Tick the correct statement

$\heartsuit \in W$ "$\heartsuit$ is a member of W"

$\heartsuit \in W'$ "$\heartsuit$ is a member of not W"

(ii) Add $\heartsuit$ to the Venn diagram

4. The teacher says: "In this Venn diagram, P is the set of words which are palindromes"

FYI Palindromes are words which are the same, if they are written forwards or backwards

ξ

mum

racecar P

son

nan

car

kayak

dad

toot

ship

chirp   daughter   grandpa

The teacher writes:

$$P = \{\text{palindromes}\}$$

(i) Tick the ☐ with the correct statement

    ☐ dodo $\in P$ "dodo is a member of P"

    ☐ dodo $\in P'$ "dodo is a member of not P"

(ii) Add the word **dodo** to the Venn diagram

Answers

1. (i) top statement : $\bigstar \in B$, (ii) draws $\bigstar$ inside the circle B

2. (i) bottom box: hello $\in A'$, (ii) writes : hello outside the circle A, but in ξ

3. (i) top box : $\heartsuit \in W$, (ii) draws $\heartsuit$ inside the circle W

4. (i) bottom box: dodo $\in P'$, (ii) writes dodo outside the circle P, but in ξ