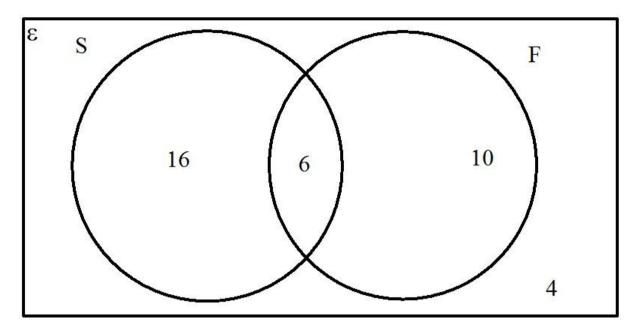


## Venn Diagrams

1. The Venn diagram below shows the number of year 9 pupils which selected either French (F) or Spanish (S) GCSE.



Use the diagram to find the probability what a randomly selected pupil is:

a. Not studying French GCSE

## (2 marks)

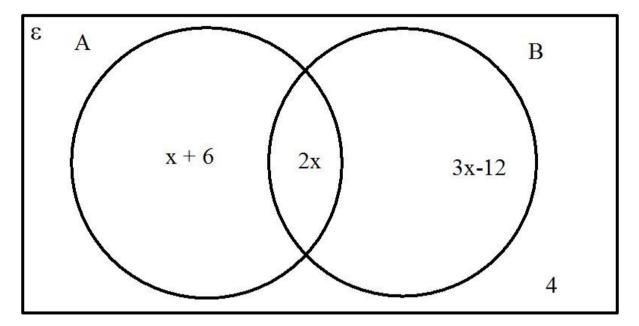
b. Not studying either Spanish or French.

## (2 Marks)

c. Studying both subjects.

## (2 Marks)

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2. The diagram below shoes the number of elements in sets A and B

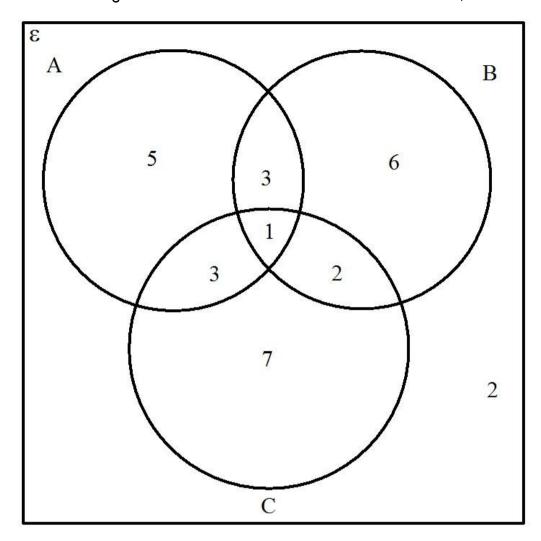
a. Give that  $(\varepsilon) = 64$ , find the value of x.

(3 Marks)

b. Find the probability that a randomly selected element is in set A.

(2 Marks)

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3. The Venn diagram below shows the number of elements in sets A, B and C.

a. Work out the total number of elements?

(2 marks)

b. Find the probability that a randomly selected element is in set A.

(1 mark)

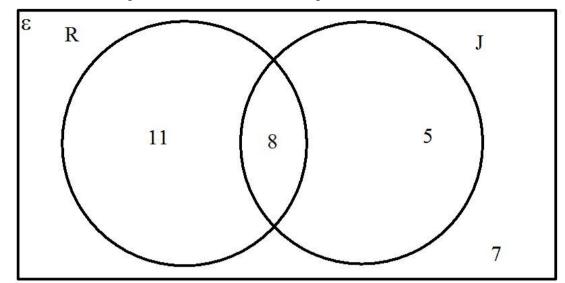
c. Find the probability that a randomly selected element is in set A and one other set (2 marks)

d. Find the probability that a randomly selected element is in neither set A of B.

(2 marks)

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4. Use the Venn diagram to answer the following:

- a. RUJ
- b. RnJ
- c. R J
- d. (R U J)'

(6 Marks)