AQA, OCR, Edexcel

GCSE

GCSE Maths

Venn Diagrams Answers

Name:

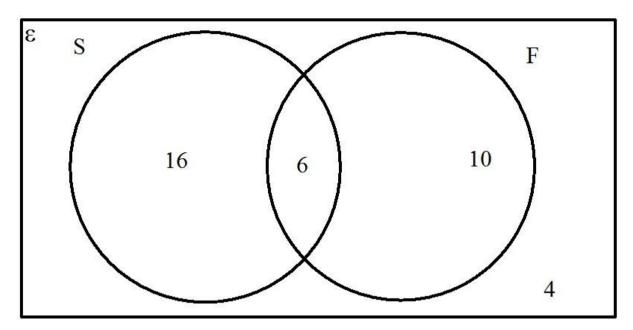


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Total Marks: /24

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

$$\frac{26}{36} = \frac{13}{18}$$

(2 marks)

b. Not studying either Spanish or French.

$$\frac{4}{36} = \frac{1}{9}$$

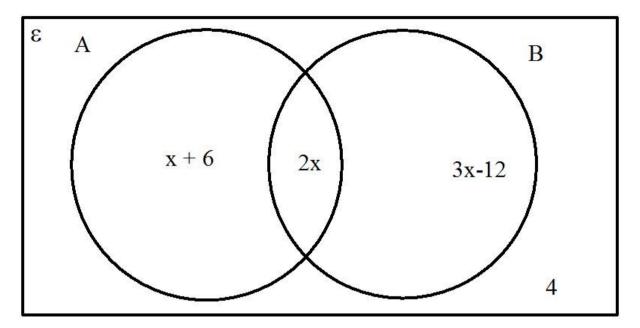
(2 Marks)

c. Studying both subjects.

$$\frac{6}{36} = \frac{1}{6}$$

(2 Marks)

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



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

x = 11

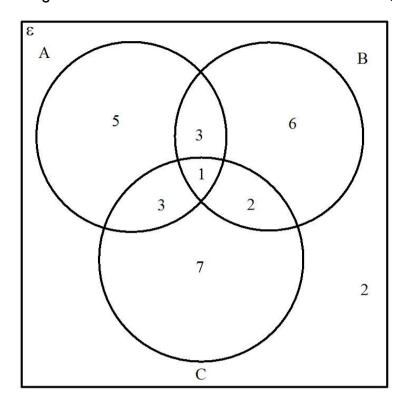
(3 Marks)

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

39

(2 Marks)

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



a. Work out the total number of elements?

= 29

(2 marks)

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

$$=\frac{12}{29}$$

(1 mark)

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

$$=\frac{6}{29}$$

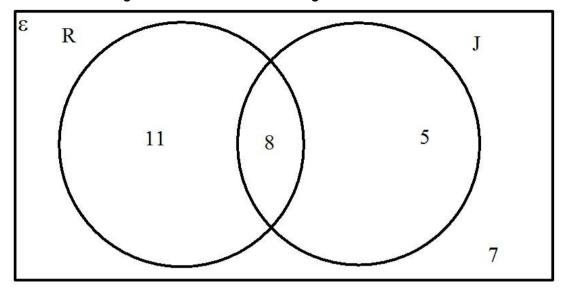
(2 marks)

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

$$=\frac{9}{29}$$

(2 marks)

4. Use the Venn diagram to answer the following:



- a. RUJ = 24
- b. R n J = 8
- c. R J = 6
- d. (R U J)' = 7

(6 Marks)