Mathematics

Mixed Questions with Venn Diagrams

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Questions

1) There are 110 teachers in a school.

90 teachers like skittles

41 teachers like smarties

25 teachers like both skittles and smarties.

Work out how many teachers like neither smarties or skittles.

Questions

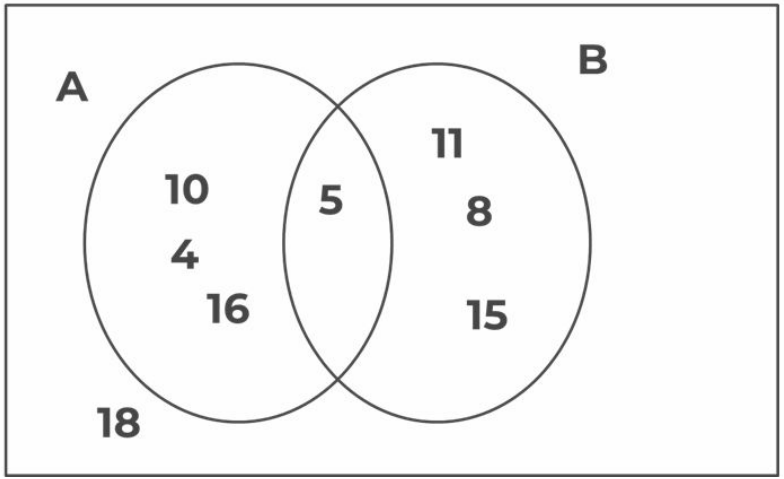
2) Here is a Venn diagram.

Write down the numbers that are in set:

a) $A \cap B$

b) $A \cup B$

c) $P(A' \cap B)$



Questions

3a) The subjects taken by 250 Year 12 students are shown below:

a) 78 students take Law

b) 26 students take Engineering

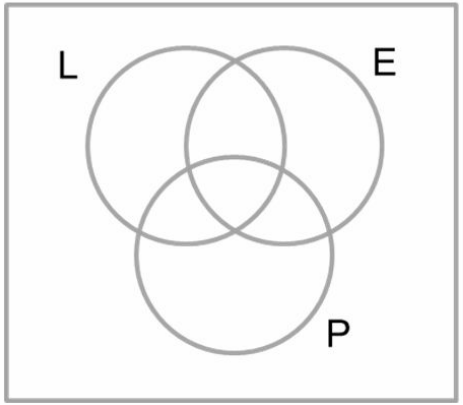
c) 43 students take PE

d) 19 students take Law and PE

e) 3 students take Engineering and PE

f) 21 students take Law and Engineering

g) 2 students take Law, Engineering and PE



1) Complete the Venn diagram for the information

Questions

4)

The subjects taken by 250 Year 12 students are shown below:

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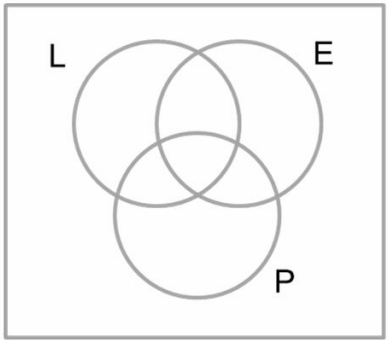
g) 2 students take Law, Engineering and PE



2) Find the probability that a student selected at random:

i. Studies at least one of the three subjects

ii. Studies no more than one of the subjects

iii. Studies Law and Engineering but not PE

Questions

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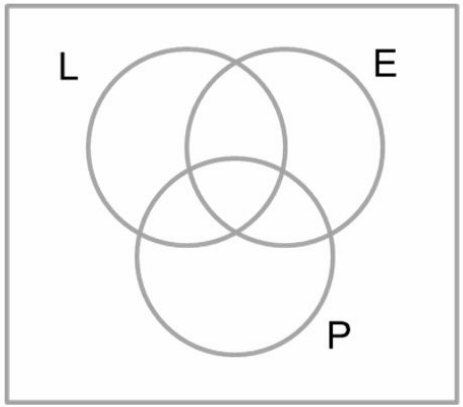
f) 21 students take Law and Engineering

g) 2 students take Law, Engineering and PE



Given that a student studies PE, find the probability they study Engineering