## Venn diagrams and probability

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## Questions

1) 



A number is chosen at random from those shown on the Venn diagram

Find:
a) $P(B)$
b) $P\left(B^{\prime}\right)$
c) $P(A \cap B)$

## Questions

2) Draw a Venn diagram to show:
$\mathscr{E}=\{$ integers from 10 to 20\}
$E=\{$ even numbers $\}$
$M=\{$ multiples of 5$\}$
b) A number is chosen at random from those in the Venn diagram. Find:
i) $P(M)$
ii) $P(E \cap M)$
iii) $P(E \cup M)$
iv) $P\left(E^{\prime} \cap M\right)$
v) $P(E \cap M)^{\prime}$

## Questions

3) Some students were asked if they played badminton or squash.

The Venn diagram shows information about their answers.

A student is chosen at random. Work out:
a) $P(B)$
b) $P(S)$
c) $P\left(B \cap S^{\prime}\right)$


