

E

F

B

$F \cap B$



A Venn diagram illustrating the relationship between two sets, F and B , within a universal set E . The universal set E is represented by a light green rectangular background. Two overlapping ellipses are shown: a red ellipse on the left labeled F and a blue ellipse on the right labeled B . The intersection of the two ellipses is shaded in a darker purple color and is labeled $F \cap B$.