Classwork on the back of Venn Diagrams

Freshman and Juniors were surveyed about which movie they preferred, Spiderman-No Way Home or Ghostbusters: Afterlife.

	Spiderman-No Way Home (S)	Ghostbusters: Afterlife (G)
Freshman (F)	21	25
Juniors (J)	32	7

Make a Venn diagram of the information. Use the hint below. Use your Venn diagram to find:

1. $P(J \cup S)$ 2. $P(\overline{F \cap G})$

3. $P(\overline{J} \cap G)$ 4. $P(F \cap S) + P(\overline{F \cup S})$

Freshman(F) and Juniors(J) should not overlap.

Spiderman(S) and Ghostbusters(G) should not overlap.

Each of the 4 numbers from the table should be in one of the squares. Two of the overlapping letters should be in the circles.