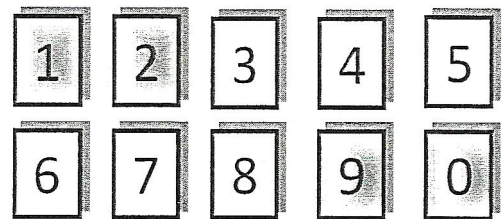
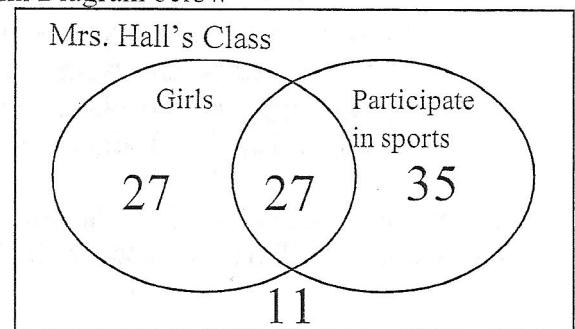


- You have an equally likely chance of choosing an integer from 1 to 50. Find the probability of each of the following events.
  - $P(\text{An even number})$
  - $P(\text{A perfect square})$
  - $P(\text{A factor of 150})$
  - $P(\text{A two digit number})$
  - $P(\text{A multiple of 4})$
  - $P(\text{A number less than 35})$
  - $P(\text{A prime number})$
  - $P(\text{A perfect cube})$
- You randomly chose two marbles, replacing the first marble before drawing again, from a bag containing 10 black, 8 red, 4 white, and 6 blue marbles. Find the probability of each of the following marble drawing events.
  - $P(\text{White, then red})$
  - $P(\text{Not red, then blue})$
  - $P(\text{Green, then green})$
  - $P(\text{Blue or black, then white})$

- Drawing a card from those on the right, what is:
  - $P(\text{even or shaded})$
  - $P(\text{White or odd})$
  - $P(< 4 \text{ or shaded})$
  - $P(> 5 \text{ or shaded})$
  - $P(\text{factor of 10 or white})$



- Answer the following questions based on the Venn Diagram below
  - $P(\text{girls})$
  - $P(\text{sports, not girls})$
  - $P(\text{not sports})$
  - $P(\text{not sports, not girls})$
  - $P(\text{girls and sports})$
  - $P(\text{Coach Prince's Class})$



- Use the following 2-way frequency table to answer the following questions. You will need to *find the margin totals* before answering your questions.

	Brown hair	Blonde hair	Red hair	Black hair	Other hair	TOTAL
Male	42	11	3	17	27	
Female	47	16	13	9	15	
TOTAL						

- $P(\text{male})$
- $P(\text{red hair})$
- $P(\text{other hair})$
- $P(\text{blonde hair} \cap \text{male})$
- $P(\text{black hair and female})$
- $P(\text{brown hair} \cap \text{not male})$
- $P(\text{female} \cap \text{not other hair})$
- $P(\text{not female} \cap \text{not male})$
- $P(\text{red hair and black hair})$