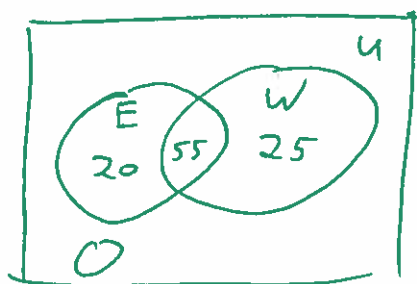


Quick Hit 6

1. Willy Wonka wants to know which of his candies are most enjoyed by the public. He surveys 100 people and finds that 75 of them enjoy Everlasting Gobstoppers and 80 of them enjoy Wonka Bars, while 55 of them enjoy both. What percentage of survey takers enjoy at least one of the listed candies?

$$E = \{x \mid x \text{ enjoys Everlasting Gobstoppers}\}$$
$$W = \{x \mid x \text{ enjoys Wonka Bars}\}$$



$$100\%$$

2. Consider the universe  $U = \{0, 1, 2, 3, 4, 5\}$  and sets  $X = \{0, 2, 4\}$  and  $Y = \{2, 3, 5\}$ . Compute

(a)  $X' = \{1, 3, 5\}$

(b)  $Y' = \{0, 1, 4\}$

(c)  $(X \cup Y)' = X' \cap Y' = \{1\}$

(d)  $(X \cap Y)' = X' \cup Y' = \{0, 1, 3, 4, 5\}$

