



Probability Union, Intersection, Complement - Word Problem Counts to Count

1

How many employees are in the certified group?

In a group of 25 employees, 5 are in the trained group but not the certified group, 2 are in the certified group but not the trained group, and 16 are in neither group.

A	2	B	8
C	6	D	4

2

How many students are in the drama group but not the band group?

In a group of students, 48 are in band, 6 are in drama, 5 are in both, and 1 are in neither group.

A	11	B	5
C	6	D	4
E	1		

3

How many employees are in the 10+ yrs group but not the full-time group?

In a group of employees, 9 are full-time, 19 have 10+ years of experience, 5 have both, and 2 are in neither group.

A	24	B	5
C	14	D	11
E	19		

4

How many employees are in both groups?

In a group of 100 employees, 88 are in the trained group but not the certified group, 2 are in the certified group but not the trained group, and 5 are in neither group.

A	5	B	2
C	0	D	3
E	88		

5

How many students are in at least one of the two groups?

In a group of 25 students, 16 take art, 6 take computer science, and 5 are in neither group.

A	22	B	24
C	23	D	16
E	20		

6

How many students are in both groups?

In a group of 25 students, 12 are in the basketball group but not the soccer group, 6 are in the soccer group but not the basketball group, and 2 are in neither group.

A	0	B	6
C	3	D	5
E	12		

7

How many customers are in the bought group?

In a group of customers, 10 did both, 35 are in the bought group but not the coupon group, 4 are in the coupon group but not the bought group, and 1 are in neither group.

A	35	B	41
C	45	D	55

8

How many patients are in the high BP group?

In a group of 50 patients, 4 are in the diabetes group but not the high BP group, 29 are in the high BP group but not the diabetes group, and 6 are in neither group.

A	51	B	45
C	40	D	29