



## Probability Union, Intersection, Complement - Word Problem Counts and Percents to Count

1

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

In a group of 25 employees, 40% are in the trained group but not the certified group, 28% are in the certified group but not the trained group, and 2 are in neither group.

A	27	B	23
C	19	D	35
E	29		

2

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

In a group of 50 library books, 34% are fiction, 3 are both, and 24 are in neither group.

A	23	B	32
C	26	D	47
E	29		

3

How many students are in the basketball group but not the soccer group?

In a group of 100 students, 79 play basketball, 22% play both, and 20 are in neither group.

A	22	B	57
C	101	D	60
E	79		

4

How many customers are in both groups?

In a group of 50 customers, 60% are in the member group but not the app group, 5 are in the app group but not the member group, and 4 are in neither group.

A	11	B	30
C	5	D	7
E	12		

5

How many vehicles are in the electric group?

In a group of 50 vehicles, 36 are in the electric group but not the under 5 yrs group, 6% are in the under 5 yrs group but not the electric group, and 6% are in neither group.

A	52	B	43
C	44	D	36

6

How many employees are in the manager group but not the remote group?

In a group of 20 employees, 25% work remotely, 2 are both, and 65% are in neither group.

A	2	B	4
C	6	D	5

7

How many households are in the internet group?

In a group of 100 households, 15 have both, 68% are in the internet group but not the streaming group, and 13 are in the streaming group but not the internet group.

A	98	B	88
C	68	D	83

8

How many employees are in the marketing group?

In a group of 50 employees, 17 work in sales, 24% work in both, and 2 are in the marketing group but not the sales group.

A	14	B	2
C	26	D	18