



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

1

What percent of the vehicles are in the electric group?

In a group of 50 vehicles, 6 are both, 6 are in the electric group but not the under 5 yrs group, and 10 are in the under 5 yrs group but not the electric group.

A	12%	B	24%
C	36%	D	21%

2

What percent of the customers are in both groups?

In a group of 20 customers, 9 have memberships, 14 use the mobile app, and 1 are in neither group.

A	20%	B	21%
C	15%	D	50%
E	25%		

3

What percent of the students are in the track group but not the swimming group?

In a group of students, 18 run track, 6 swim, 5 do both, and 1 are in neither group.

A	25%	B	65%
C	70%	D	115%
E	90%		

4

What percent of the employees are in neither group?

In a group of 25 employees, 14 are full-time, 13 have 10+ years of experience, and 5 have both.

A	12%	B	23%
C	27%	D	0%

5

What percent of the employees are in the trained group but not the certified group?

In a group of 25 employees, 10 completed training, 5 have both, and 13 are in the certified group but not the trained group.

A	60%	B	22%
C	40%	D	20%

6

What percent of the customers are in the bought group but not the coupon group?

In a group of 20 customers, 6 made a purchase this month, 3 did both, and 12 are in neither group.

A	45%	B	30%
C	15%	D	25%

7

What percent of the students are in the skateboard group but not the bike group?

In a group of 20 students, 14 ride a bicycle, 4 ride both, and 1 are in neither group.

A	25%	B	20%
C	65%	D	45%
E	21%		

8

What percent of the conference attendees are in neither group?

In a group of 50 conference attendees, 14 joined workshop A, 10 joined both, and 34 are in the shop B group but not the shop A group.

A	14%	B	4%
C	17%	D	15%