



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

1

What percent of the conference attendees are in the shop A group but not the shop B group?

In a survey of conference attendees, 66% joined workshop A, 28% joined workshop B, and 12% are in neither group.

A	60%	B	72%
C	6%	D	65%
E	66%		

2

What percent of the employees are in the full-time group but not the 10+ yrs group?

In a survey of employees, 26% are full-time, 12% have both, and 14% are in neither group.

A	26%	B	14%
C	18%	D	38%
E	12%		

3

What percent of the patients are in the high BP group but not the diabetes group?

In a survey of patients, 86% have diabetes, 3% have both, and 5% are in neither group.

A	12%	B	2%
C	3%	D	15%
E	9%		

4

What percent of the conference attendees are in the shop B group?

In a survey of conference attendees, 20% joined both, 12% are in the shop A group but not the shop B group, and 44% are in the shop B group but not the shop A group.

A	84%	B	64%
C	72%	D	44%

5

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

In a survey of customers, 60% made a purchase this month, 15% did both, and 10% are in neither group.

A	39%	B	45%
C	15%	D	30%
E	60%		

6

What percent of the employees are in the sales group but not the marketing group?

In a survey of employees, 65% work in sales, 40% work in marketing, and 20% work in both.

A	44%	B	45%
C	20%	D	85%
E	65%		

7

What percent of the shoppers are in neither group?

In a survey of shoppers, 78% bought fruit, 8% bought vegetables, and 4% bought both.

A	10%	B	18%
C	28%	D	14%

8

What percent of the vehicles are in the red group?

In a survey of vehicles, 18% are both, 54% are in the SUV group but not the red group, and 8% are in the red group but not the SUV group.

A	26%	B	8%
C	21%	D	44%