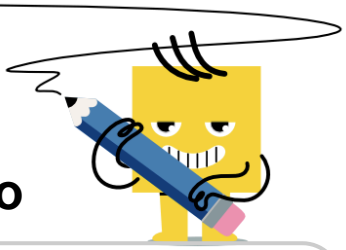
Name

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



1

In a group of 20 customers, 8 have memberships, 3 do both, and 10 are in the app group but not the member group.

If one of the customers is chosen at random, what is the probability they are in neither group?

A $\frac{1}{2}$	B $\frac{7}{10}$
C $\frac{1}{10}$	

2

In a group of students, 12 take both, 4 are in the French group but not the music group, 22 are in the music group but not the French group, and 12 are in neither group.

If one of the students is chosen at random, what is the probability they are in the music group?

A $\frac{23}{50}$	B $\frac{17}{25}$
C $\frac{23}{25}$	D $\frac{11}{25}$

3

If one of the customers is chosen at random, what is the probability they are in at least one of the two groups?

In a group of 50 customers, 20 have memberships, 9 do both, and 8 are in the app group but not the member group.

A $\frac{14}{25}$	B $\frac{37}{50}$	C $\frac{6}{25}$
D $\frac{41}{50}$	E $\frac{23}{25}$	

4

In a group of 100 students, 95 play hockey, 5 play both, and 1 are in the volleyball group but not the hockey group.

If one of the students is chosen at random, what is the probability they are in neither group?

A $\frac{1}{25}$	B $\frac{9}{100}$
C $\frac{41}{50}$	

5

If one of the shoppers is chosen at random, what is the probability they are in the veg group but not the fruit group?

In a group of 20 shoppers, 15 bought fruit, 7 bought vegetables, and 1 are in neither group.

A $\frac{3}{20}$	B $\frac{7}{20}$	C $\frac{1}{2}$
D $\frac{1}{5}$	E $\frac{4}{5}$	

6

If one of the students is chosen at random, what is the probability they are in at least one of the two groups?

In a group of 50 students, 8 are in the art group but not the comp sci group, 31 are in the comp sci group but not the art group, and 4 are in neither group.

A $\frac{6}{5}$	B $\frac{43}{50}$	C $\frac{53}{50}$
D $\frac{9}{25}$	E $\frac{23}{25}$	

7

In a group of 20 gym members, 3 are in the yoga group but not the spin group, 11 are in the spin group but not the yoga group, and 4 are in neither group.

If one of the gym members is chosen at random, what is the probability they are in the yoga group?

A $\frac{2}{5}$	B $\frac{1}{4}$
C $\frac{7}{20}$	D $\frac{3}{20}$

8

If one of the employees is chosen at random, what is the probability they are in the full-time group?

In a group of 20 employees, 5 have both, 11 are in the full-time group but not the 10+ yrs group, and 1 are in the 10+ yrs group but not the full-time group.

A $\frac{21}{20}$	B $\frac{2}{5}$	C $\frac{11}{20}$
D $\frac{4}{5}$		