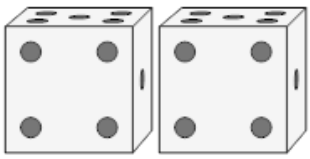
Name

Probability Union, Intersection, Complement - Dice Example Problem to Name

1 What set operation would give you the probability of rolling a 4 at least once given two tries?

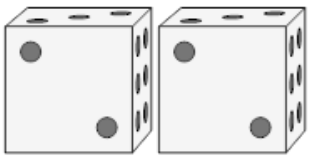


A 4_1 intersect 4_2

B Complement of 4_1

C 4_1 union 4_2

2 What set operation would give you the probability of both dice being a 2, given that at least one die is a 2?



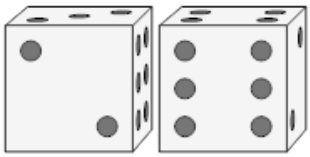
A Complement of (two 2s)

B (two 2s) conditional on (at least one 2)

C (two 2s) union (at least one 2)

D (at least one 2) conditional on (two 2s)

3 What set operation would give you the probability of one die showing a 2, given that the sum is 8?



A (a 2) union (sum 8)

B (a 2) conditional on (sum 8)

C (a 2) intersect (sum 8)

D (sum 8) conditional on (a 2)

4 What set operation would give you the probability of not rolling a 6?

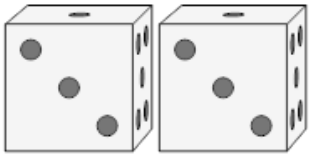
A (6) intersect (6)

B Complement of (6)

C (6) conditional on (6)

D (6) union (6)

5 What set operation would give you the probability of rolling a 3 at least once given two tries?

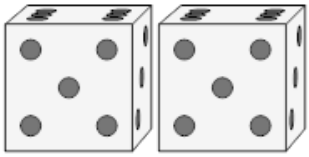


A 3_1 union 3_2

B 3_1 intersect 3_2

C Complement of 3_1

6 What set operation would give you the probability of rolling a 5 at least once given two tries?

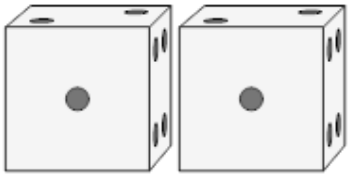


A 5_1 union 5_2

B 5_1 conditional on 5_2

C 5_1 intersect 5_2

7

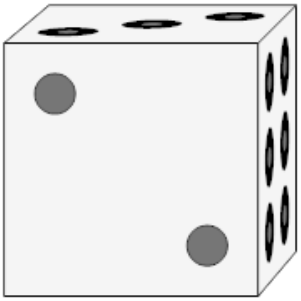


What set operation would give you the probability of rolling a 1 twice in a row?

A Complement of 1_1

B 1_1 intersect 1_2

8 What set operation would give you the probability of not rolling a 2?



A (2) intersect (2)

B (2) union (2)

C (2) conditional on (2)

D Complement of (2)