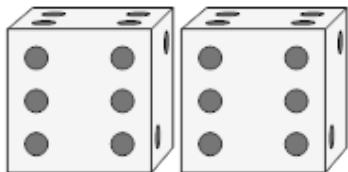


Probability Union, Intersection, Complement - Dice Example Problem to Formula

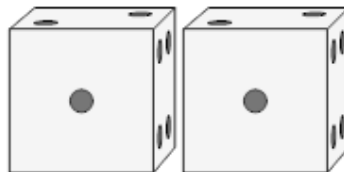
1



What formula would give you the chance of rolling a 6 twice in a row?

A	B
$1 - P(6_1)$	$P(6_1) \cdot P(6_2)$

2

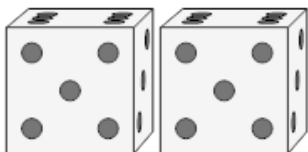


What formula would give you the chance of rolling a 1 twice in a row?

A	B
$P(1_1) \cdot P(1_2)$	$\frac{P(1_1 \cap 1_2)}{P(1_2)}$

3 What formula would give you the chance of rolling a 5 at least once given two tries?

A	$\frac{P(5_1 \cap 5_2)}{P(5_2)}$
---	----------------------------------

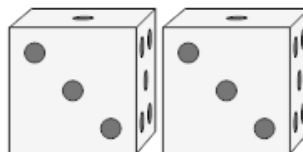


B	$P(5_1) + P(5_2) - P(5_1 \cap 5_2)$
---	-------------------------------------

C	$P(5_1) \cdot P(5_2)$
---	-----------------------

4 What formula would give you the chance of rolling a 3 twice in a row?

A	$P(3_1) + P(3_2) - P(3_1 \cap 3_2)$
---	-------------------------------------

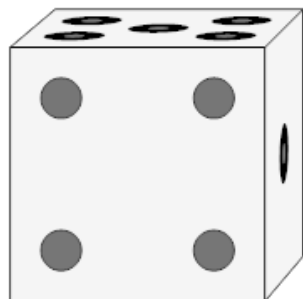


B	$1 - P(3_1)$
---	--------------

C	$P(3_1) \cdot P(3_2)$
---	-----------------------

5 What formula would give you the chance of not rolling a 4?

A	$P(4) \cdot P(4)$
---	-------------------

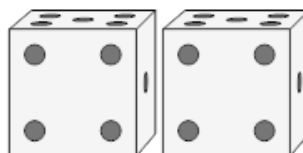


B	$1 - P(4)$
---	------------

C	$P(4) + P(4) - P(4 \cap 4)$
---	-----------------------------

6 What formula would give you the chance of rolling a 4 twice in a row?

A	$P(4_1) + P(4_2) - P(4_1 \cap 4_2)$
---	-------------------------------------

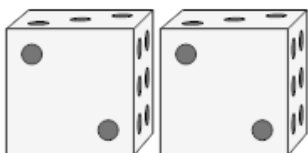


B	$\frac{P(4_1 \cap 4_2)}{P(4_2)}$
---	----------------------------------

C	$P(4_1) \cdot P(4_2)$
---	-----------------------

7 What formula would give you the chance of rolling a 2 at least once given two tries?

A	$P(2_1) \cdot P(2_2)$
---	-----------------------

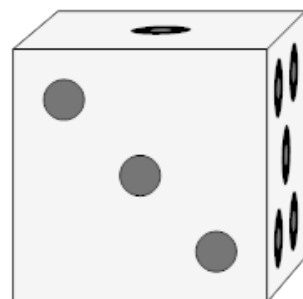


B	$P(2_1) + P(2_2) - P(2_1 \cap 2_2)$
---	-------------------------------------

C	$1 - P(2_1)$
---	--------------

8 What formula would give you the chance of not rolling a 3?

A	$1 - P(3)$
---	------------



B	$P(3) + P(3) - P(3 \cap 3)$
---	-----------------------------

C	$\frac{P(3 \cap 3)}{P(3)}$
---	----------------------------