

1. Roll 2 standard six sided number cubes. Write the sample space.
2. What is the probability of rolling an 8?
3. What is the probability of rolling a 7?
4. What is the probability of rolling at least a 10?
5. What is the probability of rolling a number less than 4?

Let A = Roll a 7 or more

Let B = Roll a 1 or 2 on the first die.

6. $P(A)=$
7. $P(B)=$
8. $P(A^c)=$
9. $P(B^c)=$
10. $P(A \cap B)=$
11. $P(A \cup B)=$

For the following, it may be helpful to draw a Venn diagram and shade each part.

12. $P(A^c \cup B^c) =$

13. $P(A^c \cap B^c) =$

14. $P(A^c \cup B) =$

15. $P(A^c \cap B) =$

16. $P(A \cup B^c) =$

17. $P(A \cap B^c) =$