

Grade 7 Practice 7.SP.C.8: Independent or Mutually Exclusive Events

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NAME: \_\_\_\_\_

1. Are the following events independent?  
You choose a pair of shoes and a pair of socks.
2. Are the following events independent?  
You roll a number cube twice so that the sum is 8.
3. Are the following events independent?  
You spin a spinner twice.
4. Are the following events independent?  
You draw a red card from a deck with an equal number of red and blue cards and, before replacing it, draw another red card.
5. Are the following events independent?  
You get 100% on your spelling test two weeks in a row.
6. Are the following events independent?  
You roll a 3 and a 4..
7. Are the following events independent?  
You choose an ice cream flavor for yourself and a friend.
8. Are the following events independent?  
You buy two different CDs.
9. Which events are independent?  
[A] You swim 10 laps in 15 min today and do the same tomorrow.  
[B] You draw a card and don't replace it. Then you draw another.  
[C] You choose 2 different ice cream flavors.  
[D] You toss two coins and get one head, one tail.
10. Identify the mutually exclusive events.  
[A] on Election day, Sue votes, Mya doesn't vote  
[B] on Election day, Mya votes, Sue doesn't vote  
[C] on Election day, Sue votes, Mya votes  
[D] on Election day, Sue votes, Sue doesn't vote
11. Identify the mutually exclusive events.  
[A] rolling a 5, drawing a 5 from a deck of cards  
[B] with one roll of a number cube, rolling a 5, rolling a 3  
[C] picking a 5 from a deck of cards, rolling a 3  
[D] with two rolls of a number cube, rolling a 5, rolling a 3
12. Identify the mutually exclusive events.  
[A]  $A$  and  $B$  when  $P(A \cap B) = 1$   
[B]  $A$  and  $B$  when  $P(A \cap B) = .2$   
[C]  $A$  and  $B$  when  $P(A \cap B) = .1$   
[D]  $A$  and  $B$  when  $P(A \cap B) = 0$

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[1] yes

[2] no

[3] yes

[4] no

[5] no

[6] yes

[7] yes

[8] no

[9] D

[10] D

[11] B

[12] D