

Bellwork Alg 2B Monday, April 9, 2018

1. Six students are to be selected for a debate. In the class there are 9 girls and 8 boys. Find the number of ways of selecting these six members if:

a) You will select six girls or six boys.

b) You will select 3 girls and 3 boys.

2. The results of a survey are shown below. Find each probability as a fraction without reducing.

	Grapes	Apples	Oranges	Bananas	Total
Female	20	31	29	11	91
Male	18	40	14	20	92
Total	38	71	43	31	183

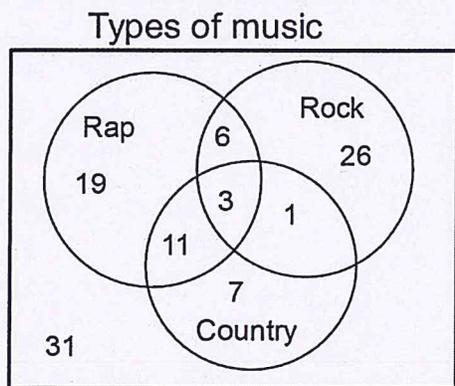
a) $P(\text{Oranges or Bananas})$

b) $P(\text{Male and Apples})$

c) $P(\text{Grapes or Female})$

d) $P(\text{No Bananas})$

3. The results of a survey are shown below. Find each probability as a fraction without reducing.



a) $P(\text{Rap but not Country})$

b) $P(\text{Rock or Rap})$

c) $P(\text{Not Country})$

d) $P(\text{Country and Rap but not Rock})$

1. Six students are to be selected for a debate. In the class there are 9 girls and 8 boys. Find the number of ways of selecting these six members if:

a) You will select six girls or six boys.

$${}^9C_6 + {}^8C_6 = 84 + 28 = 112$$

b) You will select 3 girls and 3 boys.

$${}^9C_3 \cdot {}^8C_3 = 84 \cdot 56 = 4704$$

2. The results of a survey are shown below. Find each probability as a fraction without reducing.

	Grapes	Apples	Oranges	Bananas	Total
Female	20	31	29	11	91
Male	18	40	14	20	92
Total	38	71	43	31	183

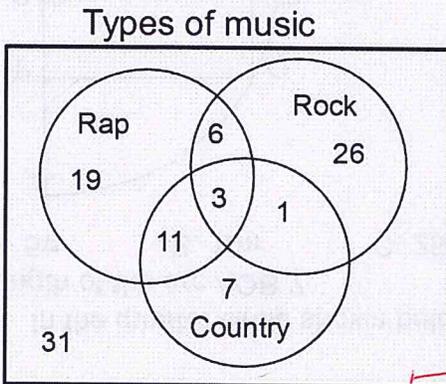
a) $P(\text{Oranges or Bananas}) = \frac{74}{183}$

b) $P(\text{Male and Apples}) = \frac{40}{183}$

c) $P(\text{Grapes or Female}) = \frac{109}{183}$

d) $P(\text{No Bananas}) = \frac{152}{183}$

3. The results of a survey are shown below. Find each probability as a fraction without reducing.



104 TOTAL

a) $P(\text{Rap but not Country}) = \frac{25}{104}$

b) $P(\text{Rock or Rap}) = \frac{66}{104}$

c) $P(\text{Not Country}) = \frac{82}{104}$

d) $P(\text{Country and Rap but not Rock}) = \frac{11}{104}$

$104 - 1 - 3 - 11 - 7$
or
 $31 + 19 + 6 + 26$