Algebra 2 Bellwork Friday, April 15, 2016

This Venn Diagram shows foods people like.



A person is selected at random. Find each probability as a fraction.

- 1. P(don't like Italian)
- 2. P(like Chinese but not Mexican)
- 3. P(Like Mexican and Italian but not Chinese)
- 4. P(Like Italian or Chinese)
- 5. P(Don't like Italian, Mexican, or Chinese)

6. The probability that I wear a green shirt is $\frac{3}{8}$ and the probability that I wear black pants is $\frac{2}{7}$, and the probability that I wear blue pants is $\frac{5}{12}$. Find each probability as a percent to the nearest tenth.

a). The probability that I wear a green shirt or I wear black pants to work today.

b) The probability that I wear a pair of black pants or a pair of blue pants.

P(green shirt or black pants) =

P(black pants or blue pants) =

7. You go in the back yard an shoot some arrows at a target. The package of arrows has 3 with red feathers, 8 with blue feathers, and 2 with green feathers. You pull out an arrow at random and shoot it at the target. You missed the bulls-eye so you grab another arrow at random and shoot it. Find each probability as a fraction.

a) P(green arrow and blue arrow)=

b) P(red arrow and red arrow)=

8. A survey shows that 80% of people like Oreos. Find the probability that if you ask 4 people, 3 of them will say that they like Oreos. Give your answer as a percent to the nearest tenth.

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A person is selected at random. Find each probability as a fraction.

TOTAL = 95

1. P(don't like Italian) = $\frac{59}{95}$

2. P(like Chinese but not Mexican) = $\frac{27}{95}$

- 3. P(Like Mexican and Italian but not Chinese) = $\frac{7}{95}$
- 4. P(Like Italian or Chinese) = 65/95
- 5. P(Don't like Italian, Mexican, or Chinese) = $\frac{29}{95}$

6. The probability that I wear a green shirt is $\frac{3}{8}$ and the probability that I wear black pants is $\frac{2}{7}$, and the probability that I wear blue pants is $\frac{5}{12}$. Find each probability as a percent to the nearest tenth.

a). The probability that I wear a green shirt or I wear black pants to work today.

b) The probability that I wear a pair of black pants or a pair of blue pants.

P(green shirt or black pants) =

P(black pants or blue pants) =

7. You go in the back yard an shoot some arrows at a target. The package of arrows has 3 with red feathers, 8 with blue feathers, and 2 with green feathers. You pull out an arrow at random and shoot it at the target. You missed the bulls-eye so you grab another arrow at random and shoot it. Find each probability as a fraction. TOTAL # of arrowS = /3

a) P(green arrow and blue arrow)=

 $\frac{2}{13} \cdot \frac{8}{17} = \frac{16}{151}$

b) P(red arrow and red arrow)=

 $\frac{3}{12} \cdot \frac{2}{12} = \frac{6}{156}$

2 + 5 = (70.2%)

8. A survey shows that 80% of people like Oreos. Find the probability that if you ask 4 people, 3 of them will say that they like Oreos. Give your answer as a percent to the nearest tenth.

41.0% can say they like oreos = 4