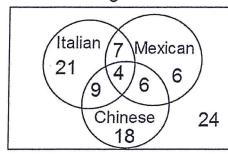
## Algebra 2 Bellwork Tuesday, May 26, 2015

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. Harry travels a lot for his job. The probability that he's in Florida at noon is  $\frac{2}{15}$  and the probability that he's in Cancun at noon is  $\frac{1}{9}$ .

Find the probability that he's in Florida or he's in Cancun at noon. Give your answer as a fraction. P(Florida or Cancun) =

7. The probability that I wear a green shirt is  $\frac{3}{8}$  and the probability that I wear black pants is  $\frac{2}{7}$ . Find the probability that I wear a green shirt or I wear black pants to work today. Give your answer as a percent to the nearest tenth.

P(green shirt or black pants)=

8. 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.

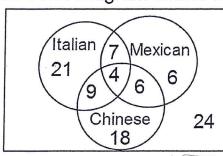
You pull out an arrow at random and shoot it at the target. You missed the bulls-eye so you grab another arrow at random and shoot it. Find each probability as a fraction.

- a) P(gree arrow and blue arrow)=
- b) P(red arrow and red arrow)=

## Algebra 2 Bellwork Tuesday, May 26, 2015

ANSWERS

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) =  $\frac{54}{95}$  2. P(like Chinese but not Mexican) =  $\frac{27}{95}$ 

- 3. P(Like Mexican and Italian but not Chinese) =  $\frac{1}{95}$
- 4. P(Like Italian or Chinese) =  $\frac{65}{95}$
- 5. P(Don't like Italian, Mexican, or Chinese) =
- 6. Harry travels a lot for his job. The probability that he's in Florida at noon is  $\frac{2}{15}$  and the probability that he's in Cancun at noon is  $\frac{1}{9}$ . + MUTUALLY EXCLUSIVE

Find the probability that he's in Florida or he's in Cancun at noon. Give your answer as a fraction.

P(Florida or Cancun) =  $=\frac{1}{9}+\frac{2}{15}=\frac{5}{45}+\frac{6}{45}=\left(\frac{11}{215}\right)$ 

7. The probability that I wear a green shirt is  $\frac{3}{8}$  and the probability that I wear black pants is  $\frac{2}{7}$ . Find the probability that I wear a green shirt or I wear black pants to work today. Give your answer as \* NOT MUTUALLY EXCLUSIVE

P(green shirt or black pants)=

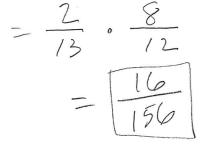
a percent to the nearest tenth.

ck pants)=
$$= \frac{3}{8} + \frac{2}{7} - \frac{3}{8} \cdot \frac{2}{7} \longrightarrow 55.4\%$$

8. 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. 13 TOTAL

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(gree arrow and blue arrow)=



b) P(red arrow and red arrow)=

$$=\frac{3}{13},\frac{2}{12}$$

$$=$$
  $\left[\frac{6}{156}\right]$