Algebra 2 Bellwork Tuesday, May 19, 20135

1. You take a survey asking people what their favorite UEFA Champions League team is. The results are in the table below:

	Real Madrid	Dortmund	AC Milan	Chelsea FC	Arsenal FC	Total
Male	15	13	18	22	37	105
Female	23	17	14	8	16	78
Total	38	30	32	30	53	183

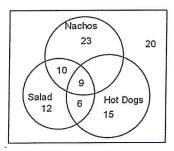
You will select one person at random. Find each probability as a fraction.

a) P(Dortmund or Chelsea FC)=

b) P(AC Milan and Male)=

c) P(Female or Real Madrid)=

- d) P(Neither Arsenal FC nor Male)=
- e) If you asked 60 more people what their favorite UEFA team is how many of them would select AC Mllan?
- 2. Below is a Venn Diagram about lunch food that students like. You will select a person at random. Find each probability as a fraction.



a) P(likes Hot Dogs or Nachos)

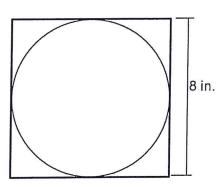
b) P(likes Salad but not Hot Dogs)

c) P(likes Nachos only)

- d) P(dislikes both Salad and Nachos)
- e) Write a probability whose answer is 10+12
- f) Write a probability whose answer is 6+9

3. Use the information below:

The circle is inscribed in the square. A dart lands in a random spot within the square. Find the probability that the dart doesn't land in the circle. Give answer as a percent to the nearest tenth.



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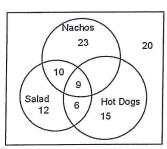
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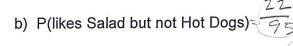
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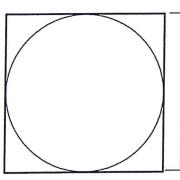
a) P(likes Hot Dogs or Nachos): 63
95



- c) P(likes Nachos only) = 23
- d) P(dislikes both Salad and Nachos)=
- e) Write a probability whose answer is 10+12
- f) Write a probability whose answer is 6+9

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The circle is inscribed in the square. A dart lands in a random spot within the square. Find the probability that the dart doesn't land in the circle. Give answer as a percent to the nearest tenth.



Area of SQ = 64in L 8 in. Area of circle = M(4)² = 16TIM²

