

Name/#: _____

Date: _____

Venn Diagram Homework

Use a Venn Diagram to solve the following problems.

1. Alex bought chocolate chips and macadamia nuts to make 36 cookies (these are not for a Brookwood party!). 15 of the cookies are just chocolate. 12 of them have both macadamia nuts and chocolate. How many have just macadamia nuts?

2. Claire and Laura have 20 DVD's in their collection. Claire likes 16 of the DVD's and Laura likes 12 of them. How many do they both like?

3. In a class of 32 kids, 20 say that they like pancakes and 14 say that they like maple syrup. There are 6 pupils who don't like either. How many of them like both pancakes and maple syrup?

4. Challenge: How would you use a Venn Diagram to solve this problem:
40 teenagers belong to a youth club. They all play at least one of badminton, darts, and pool.
 - 8 teenagers play all three games
 - 10 teenagers play badminton and darts
 - 20 teenagers play darts and pool
 - 12 teenagers play pool and badminton
 - 30 teenagers play pool
 - 23 teenagers play darts

How many teenagers play *only* badminton?

How many teenagers play badminton?