

Problem of the Day: Are the following discrete or continuous sets of data?
 a. number of pepperoni on a pizza discrete
 b. length of a person's hair Continuous
 c. the amount of fluid in an IV bag Cont.
 Plan for the Day: Collect Homework Week 4
 Notes on relations
 Extra credit puzzle & Types of Data wksht due tom.
 Objective: We will be able to represent data in different ways and identify the domain and range.
 Good luck football and cheerleaders vs. Davila and SFA!!

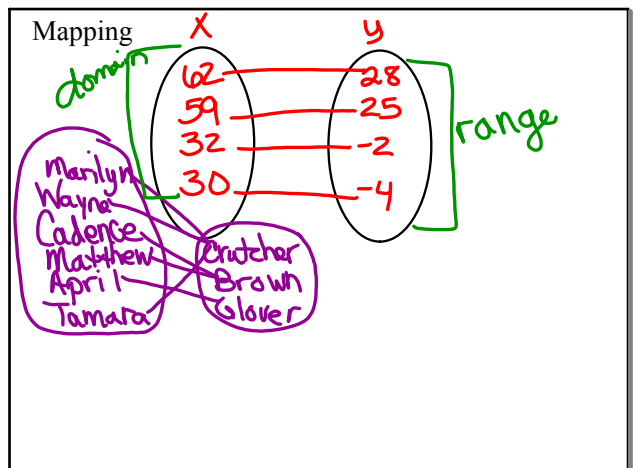
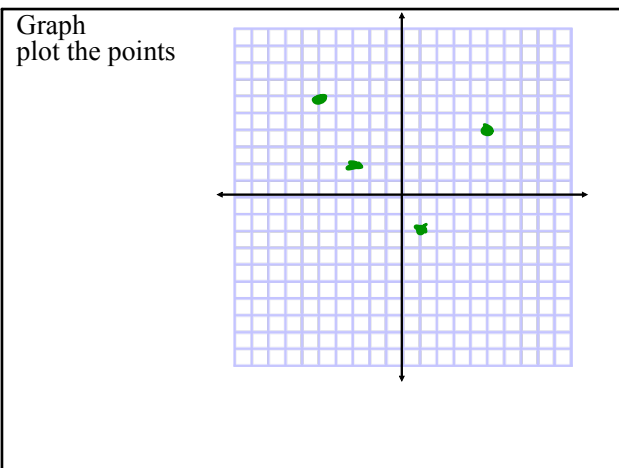
Pick 4 members of your family
 Write down their name and age
 Then determine the difference in ages between the family members and yourself. Younger family members will have a negative difference.

Name	Age	Difference
Dad	62	28
Mom	59	25
April	32	-2
Tamara	30	-4

Relation- a set of ordered pairs; can be discrete or continuous
 Example: $\{(62, 28), (59, 25), (32, -2), (30, -4)\}$
 Domain- all the x-values in a relation
 Example: domain would be $\{62, 59, 32, 30\}$
 $\{30, 32, 59, 62\}$
 Range- all the y-values in a relation
 Example: range would be $\{28, 25, -2, -4\}$
 $\{-4, -2, 25, 28\}$

4 ways to represent a relation:
 Ordered Pairs list like a point
 Table Make a chart

$\{(62, 28), (59, 25), (32, -2), (30, -4)\}$

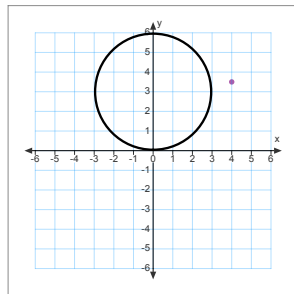


Example: State the domain and range of the following relations.

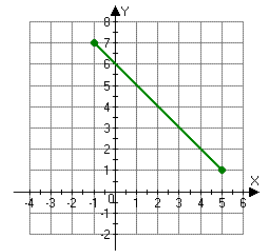
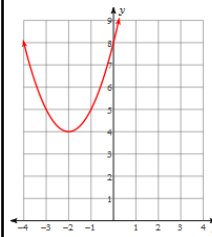
a. $\{(3, 4), (7, 9), (-4, 2), (0, 5), (3, 5)\}$

b. $\begin{array}{c|c} x & y \\ \hline 2 & 3 \\ \hline -1 & 8 \\ \hline 4 & 5 \end{array}$

c.



Example: State the domain and range of the relation below.



Try on your own

Represent the following relation as a list, table, and mapping. State the domain and range.

