

Graphing Practice

Name _____ Date _____ Period _____

Directions: Use the following information to create a line graph. Read it carefully to pick out clues about how to set up the graph. You'll want to refer to the previous information on constructing graphs.

Graph #1 Marie and Seth are working on a lab activity where they are tracking some leaves that are floating past them in a rain runoff channel near their home. They have to measure how far the leaves travel in different amounts of time. They place a long tape measure along side of the runoff channel to measure distance. A borrowed stopwatch will let them record the amount of time. They plan to have time intervals that begin at two seconds, and increase by two's until they get to 20 seconds. The data they recorded is below:

Time in seconds	Distance in cm	Time in seconds	Distance in cm
2	5.5	12	33.3
4	11.8	14	38.6
6	16.4	16	44.0
8	22.2	18	49.1
10	27.5	20	54.3

Graph #2 This will take a bit more thought on your part. You might want to look in your textbook or a previous handout for clues about the type of graph to make.

A group of students is doing an experiment where they roll a ball down a ramp and then measure how far across the floor it rolls. The factors that are the same each time are:

- the ball
- the ramp, including its length and angle to the surface
- where on the ramp the ball starts from

The students do change the type of surface the ball rolls on. The data they collected is shown below.

Type of Surface	Ceramic Tile	Wood	Shag Carpet	All Weather Carpet	Vinyl Flooring
Distance Ball Rolls in cm	789	855	135	477	720