Key

Vocabulary

Mean – a math process where you find the __sum__ of the data and __divide__ by the number of pieces of data. It is the balance point for the data set.
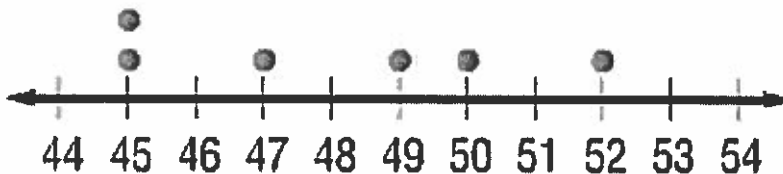
Average – It is another name for mean and __summarizes__ the data using a single number.

Key Concept

It is best or most appropriate to use mean when the data has no extreme values.

How to Read a Dot Plots

In a dot plot, individual data values are represented as dots above a number line.

High Temperatures

44 45 46 47 48 49 50 51 52 53 54

This Dot Plot has the following data 45, 45, 47, 49, 50, and 52.
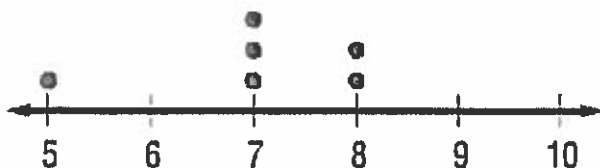
Guided Practice:

1. Tina and her friends downloaded songs for 6 weeks, as shown in the table below. On _average_, how many songs did they download each week?

Number of Songs Downloaded each week					
12	6	10	9	4	1

#1 $12+6+10+9+4+1 = 42$

#2 $42 \div 6 =$ 7 songs

2. The dot plot shows the number of beads sold. Find the _mean_ number of beads.

Number of Beads

5   6   7   8   9   10

#1 $5+7+7+7+8+8 = 42$

#2 $42 \div 6 =$ 7 beads

3. The table shows the number of CDs a group of friends bought. Find the __mean__ number of CDs the group bought.

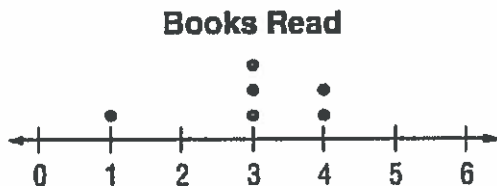| Number of CDs Purchased		
3	4	6
0	2	

#1 $3+4+6+0+2=15$

#2 $15 \div 5 = \boxed{3 \text{ CDS}}$

4. The table shows the greatest depths of four of the five oceans in the world. If the average greatest depth is 8.094 kilometers, what is the greatest depth of the Southern Ocean?

Ocean	Greatest Depth (km)
Pacific	10.92
Atlantic	9.22
Indian	7.46
Arctic	5.63
Southern	▓

Partner Talk

The dot plot shows the number of books Deanna read each week of a month-long reading chaellenge. Find the __mean__ numbers of books she read.

Books Read

0 1 2 3 4 5 6

#1 $1+3+3+3+4+4=$

#2 $18 \div 6 = \boxed{3 \text{ books}}$

Building on the Essential Question - Why is it helpful to find the mean of a data set?

The mean summarizes the data using one number.