

Name: \_\_\_\_\_

# Grade 6

## DATA MANAGEMENT & PROBABILITY: MEAN, MEDIAN, MODE AND RANGE

1. In each blank, write the median.

a) 5, 6, 8, 2, 4 \_\_\_\_\_

b) 12, 23, 5, 7, 4, 11, 24 \_\_\_\_\_

c) 6, 4, 5, 4, 2 \_\_\_\_\_

d) 7, 3, 11, 3, 4, 7, 3 \_\_\_\_\_

e) 7, 4, 2, 4 \_\_\_\_\_

f) 12, 3, 5, 1, 5, 7 \_\_\_\_\_

g) 8.5, 9.2, 8.3, 9.8, 8.9 \_\_\_\_\_

2. In each blank, write the mode.

a) 12, 10, 12, 13, 9, 11, 8 \_\_\_\_\_

b) 6, 4, 5, 3, 6, 3, 4, 6, 5, 7 \_\_\_\_\_

c) 0, 1, 0, 0, 1, 0, 1 \_\_\_\_\_

d) 2.2, 2.3, 2.5, 2.3, 2.2, 2.2 \_\_\_\_\_

3. Write the range in each blank.

a) 2, 7, 3, 9, 1 \_\_\_\_\_ b) 9, 17, 3, 14, 7, 4 \_\_\_\_\_

c) 14, 3, 12 \_\_\_\_\_ d) 91, 23, 22, 1, 12, 44 \_\_\_\_\_

e) 16.5, 8.7, 9.6 \_\_\_\_\_ f) 42.5, 68.3, 19.6, 75.3 \_\_\_\_\_

4. Calculate the mean and write it in each blank.

a) 3, 7, 2, 4 \_\_\_\_\_ b) 5, 2, 1, 2, 5 \_\_\_\_\_

c) 5, 2, 5, 4, 3, 5 \_\_\_\_\_ d) 5, 10, 5, 20, 10, 5, 15 \_\_\_\_\_

e) 4.8, 5.6, 4.3, 5.7 \_\_\_\_\_ f) 5.8, 7.6, 6.8, 8.5, 7.3 \_\_\_\_\_

### REMEMBER!

The **mode** is the most frequent number that occurs in a set of numbers.

In the set 3, 5, 6, 5, 6, 5, 4, 5, the mode is 5.

The **median** is the middle number in a set of numbers when the set is arranged in order. If there is an even number of values, the median is the average of the two middle numbers.

In the set 7, 9, 14, 21, 39, the median is 14.

In the set 5, 10, 12, 28, the median is 11.

The **mean** of a set of values is the sum of the values divided by the number of values.

In the set 10, 20, 60, the mean is 30.

The **range** is the difference between the largest and smallest numbers in a set of numbers.

In the set 8, 32, 15, 10, the range is 24.

### DID YOU



Hummingbirds are like helicopters. They are the only bird that can fly forward, backward, upside down, right, left and even hover. Their little wings beat an average of 20 to 25 times per second. During some of their dives their wings beat up to 200 times per second.

5. Play the Train Race game. Go to *mathfrog.ca* for the link.

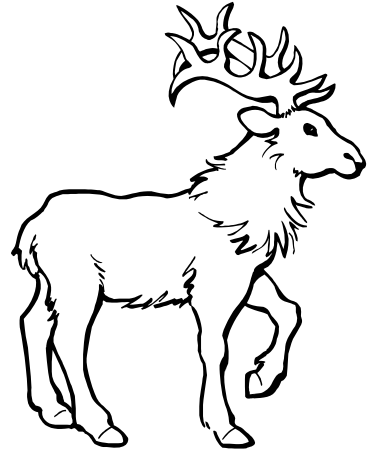
6. Calculate the mean, median, mode and range for:

a) 11, 2, 5, 7, 2, 3

mean: \_\_\_\_\_ median: \_\_\_\_\_ mode: \_\_\_\_\_ range: \_\_\_\_\_

b) 8, 4, 3, 4, 4, 5, 7

mean: \_\_\_\_\_ median: \_\_\_\_\_ mode: \_\_\_\_\_ range: \_\_\_\_\_



7. The graph shows the number of caribou in the Selkirk mountain range of British Columbia, Idaho and Washington between 1991 and 2003.

With respect to the number of caribou, the:

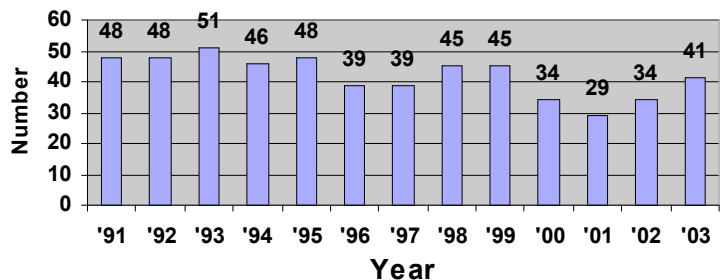
a) median is \_\_\_\_\_.

b) mode is \_\_\_\_\_.

c) range is \_\_\_\_\_.

d) mean is \_\_\_\_\_ (correct to one caribou).

Selkirk Caribou Population



8. Mr. Crippin gave his class a 10-mark quiz.

The results are summarized in the chart.

What:

a) mark is the median? \_\_\_\_\_

b) mark is the mode? \_\_\_\_\_

c) is the range of marks? \_\_\_\_\_

MATH QUIZ MARKS	
Mark	Number of students
1	0
2	1
3	1
4	5
5	5
6	3
7	6
8	2
9	1
10	1

**TRY THIS!**

Calculate the mean for question 8.