Name

2)

Date

Geese Migration to a Park

Year

Number of geese

300

275 250

225 200

17

## Chapter 6 & 9 Review – Part 1

- The scatter plot shows the number of geese that migrated to a park 1) each season.
  - In what year did 270 geese migrate? a)

KEY '15

2012

How many geese migrated in 2010? b)

225 geese

Describe the relationship shown by the data. c)

Positive relationship





You have been working on a science project for 8 months. Each month, you measured the length of a baby 5) alligator. The following table shows your measurements.

September								April
								· · · · · · · · · · · · · · · · · · ·
Month, x	0	1	2	3	4	5	6	7
Length (in.), y	22.0	22.5	23.5	25.0	26.0	27.5	28.5	29.5

Use the following steps to predict the baby alligator's length next September.

- Graph the data in the table. a)
- Draw a line that you think best approximates the **b**) points.

c) Write an equation for your line. 
$$(4, 26)(3, 25)$$
  

$$M = \frac{26 - 25}{4 - 3} = 1$$

$$\boxed{Y = X + 22}$$

Use the equation to predict the baby alligator's d) length next September.

- An animal shelter opens in December. The table 6) shows the number of cats adopted from the shelter each month from January to September.
  - Make a scatter plot of the data and a) draw a line of fit.

 $(2,6)(6,1)_{b}$ 

M=2

Write an equation of the line of fit.  $y=2\times+3$ Interpret the slope and the y-intercept

of the line of fit.

- M=14-6-80) 6-2 4 Slope means that 2 cats are adoped per cats 14 Month. 4-int means 3 cats were adopted in month zero 12 Predict how many cats will be adopted
  - d) in October.





- 7) A class held an ice cream eating contest. The finalist scores are shown in the bar graph.
  - a) How many scoops did John eat?

b) What is the average number of scoops eaten by the finalists?



Age

35

 c) How many scoops did Amy eat compared to Juan? Amy ate 8 scoeps compared to Juan's 3 scoops (5 more)
 d) What is the median amount of scoops eaten?

15

20

18= youngest

25

b) How old the youngest and oldest teachers?

What is the range of teachers' ages?

30-18 = 12 years

30

30=oldest

$$1, 4, 4.5, 5, 8$$
  
 $1$   
median  
 $4.5 = median$ 

7) The following is a box-and-whiskers chart of ages of teachers at Young Middle School

3

- a) What is the median age of the teachers? 25 years old
- c) What percent of the teachers are between 18 and 30 years old?

100%

8) Find the mean, median, mode, and range. If an answer is not a whole number, round to the nearest tenth.

**d**)

a) Mean = 
$$527 \div 8 = 65.875$$
 b) Median =  $65$   
=  $65.9$ 

c) Mode = 64, 65, +68

d) Range = 
$$72-61 = 111$$

61,64,64,65,65,68,68,72

- 9) A family is making a monthly budget. Its total take-home pay for a month is \$2400.
  - a) What category had the most expenditures?  $F_{00}$
  - b) How much money was budgeted for Rent?



c) How much money was budgeted for Misc?



d) In the circle graph, how many degrees is the sector of "Clothes"?

