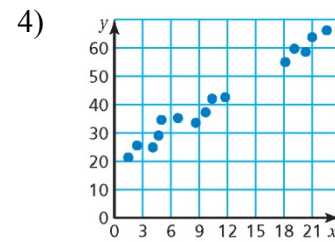
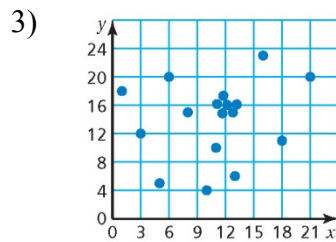
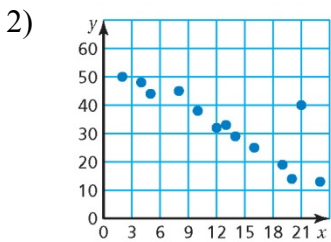


# Chapter 9 Review

- 1) The scatter plot shows the number of geese that migrated to a park each season.
- In what year did 270 geese migrate?
  - How many geese migrated in 2010?
  - Describe the relationship shown by the data.



Describe the relationship between the data. Identify any outliers, gaps, or clusters.

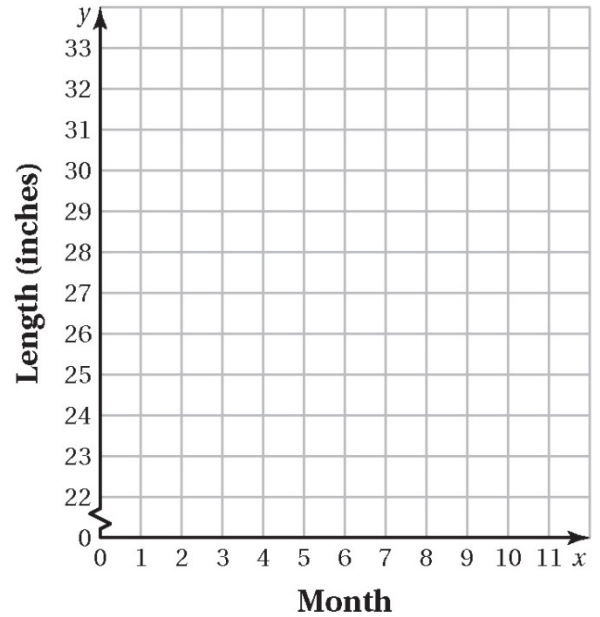


- 5) You have been working on a science project for 8 months. Each month, you measured the length of a baby alligator. The following table shows your measurements.

September									April
↓									↓
<b>Month, <math>x</math></b>	0	1	2	3	4	5	6	7	
<b>Length (in.), <math>y</math></b>	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.

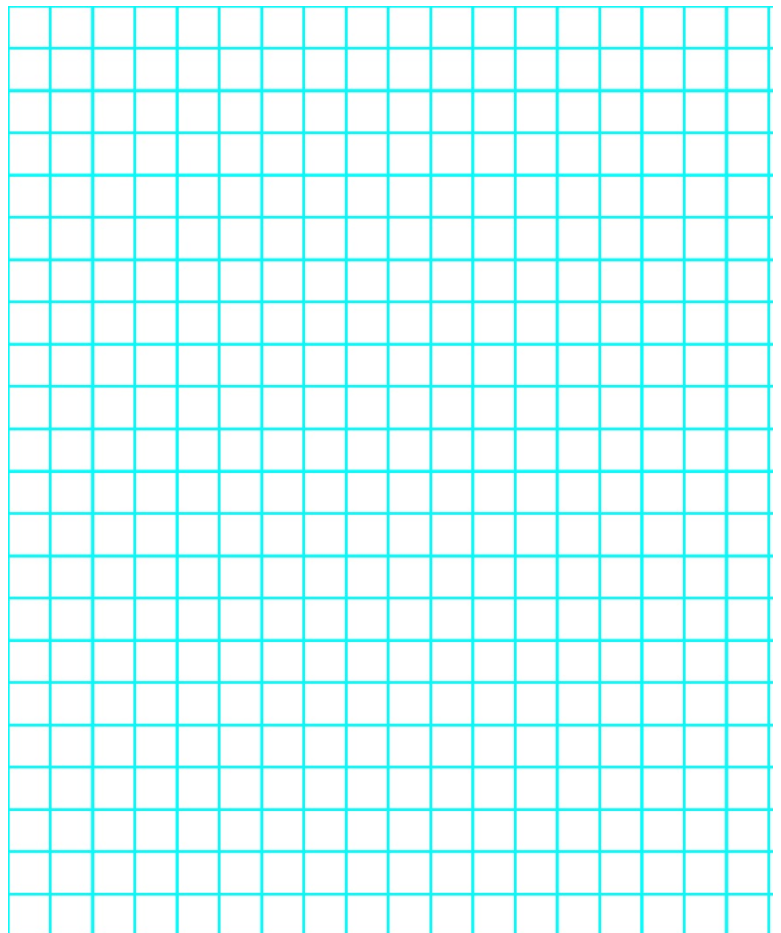
- a) Graph the data in the table.
- b) Draw a line that you think best approximates the points.
- c) Write an equation for your line.
- d) Use the equation to predict the baby alligator's length next September.



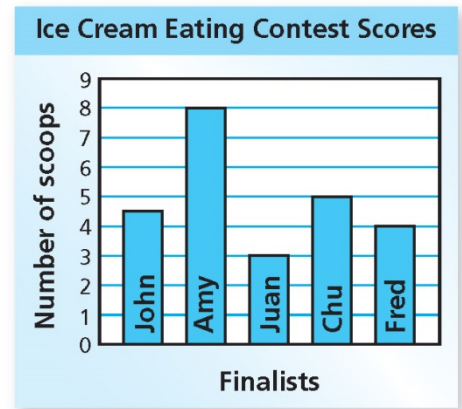
- 6) An animal shelter opens in December. The table shows the number of cats adopted from the shelter each month from January to September.

Month	1	2	3	4	5	6	7	8	9
Cats	3	6	7	11	13	14	15	18	19

- a) Make a scatter plot of the data and draw a line of fit.
- b) Write an equation of the line of fit.
- c) Interpret the slope and the y-intercept of the line of fit.
- d) Predict how many cats will be adopted in October.

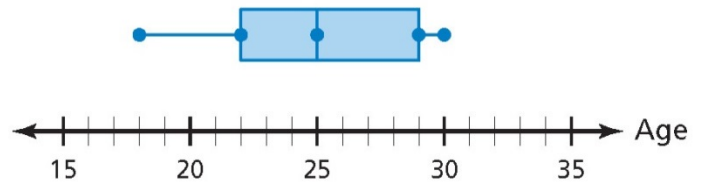


7) A class held an ice cream eating contest. The finalist scores are shown in the bar graph.



- a) How many scoops did John eat?
- b) What is the average number of scoops eaten by the finalists?
- c) How many scoops did Amy eat compared to Juan?
- d) What is the median amount of scoops eaten?

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



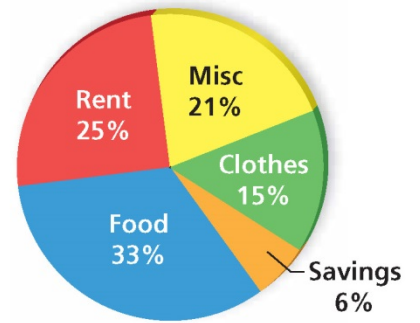
- a) What is the median age of the teachers?
- b) How old are the youngest and oldest teachers?
- c) What percent of the teachers are between 22 and 29 years old?
- d) What is the range of teachers' ages?

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

4, 0, 8, 2, 1, 7, 2, 4, 26, 2, 10

- a) Mean =
- b) Median =
- c) Mode =
- d) Range =

10) A family is making a monthly budget. Its total take-home pay for a month is \$2400.



- a) What category had the most expenditures?
- 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"?

11) You randomly survey people at a mall about whether they like the new food court. The results are shown.


Teenagers  
96 likes, 4 dislikes

Adults  
21 likes, 79 dislikes

Senior Citizens  
18 likes, 82 dislikes

- a) Make a two-way table that includes the marginal frequencies.
- b) Find and interpret the marginal frequencies for the survey.

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