Name: _____

Date: _____

Match each term with its correct definition.

1. to estimate a value beyond a known range of values

2. a graph used to display how a whole is divided, sectors of which represent parts of the data

3. a way of showing data using images; each image stands for a certain number of items

4. graph that uses points joined by line segments to display data

5. a graph used to plot discrete data using rectangular bars, the lengths of which are proportional to the values represented

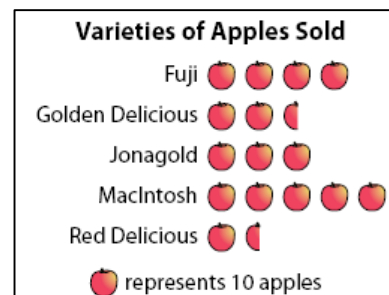6. a graph used to represent the distribution of data - the width of bar represents a range of numbers

7. to estimate a value between two known values

8. a visual representation of information or data
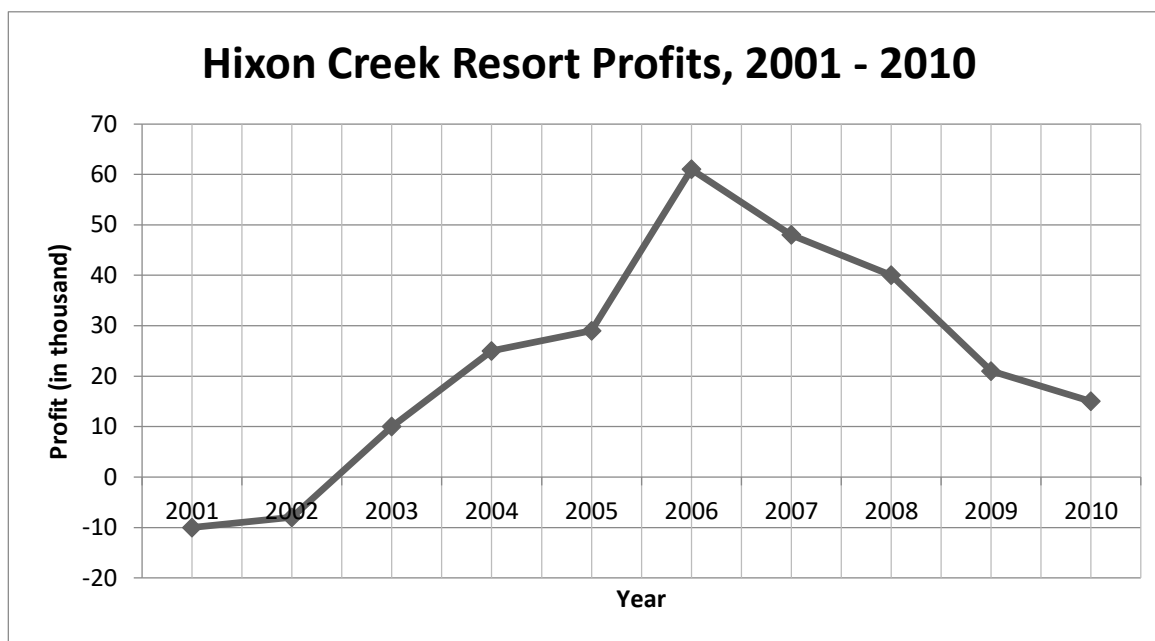
_____ interpolate

_____ broken line graph

_____ infographic

_____ extrapolate

_____ histogram

_____ circle graph

_____ bar graph

_____ pictograph

9. How many more MacIntosh apples were sold than Golden Delicious apples?

_____

Varieties of Apples Sold

Fuji
Golden Delicious
Jonagold
MacIntosh
Red Delicious

represents 10 apples

10. The profits for the Hixon Creek Resort are represented by the following graph:

Hixon Creek Resort Profits, 2001 - 2010

a) What type of graph is this? _____

b) In what year did the Resort make the most profit? _____

c) In what year did the Resort make the least profit (but not a loss)? _____

d) How much profit did the Resort make in 2008? _____
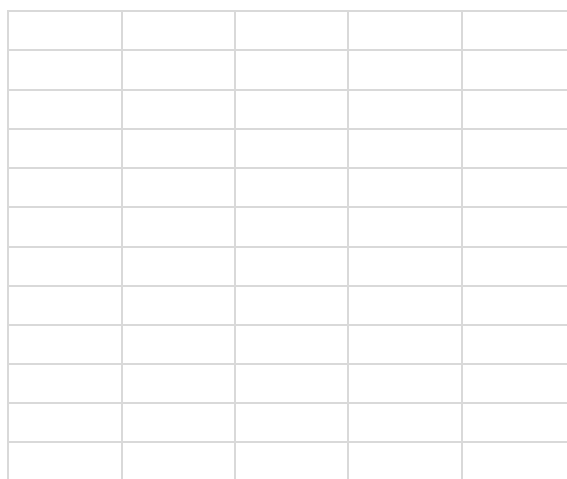
e) What happened in 2001 and 2002? _____

_____

f) What was the trend from 2001 to 2006? _____

_____

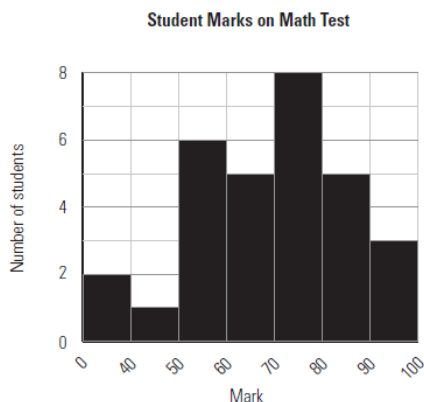g) What was the trend from 2006 to 2010? _____

_____

11. The RCMP in Prince George compiled the data on all the UFO sightings last year and categorized the reports by neighborhood:

UFO Sightings by Neighborhood, 2014					
Neighborhood	The Bowl	The Hart	Pineview	College Heights	Beverly
Number of Sightings	6	15	30	13	46

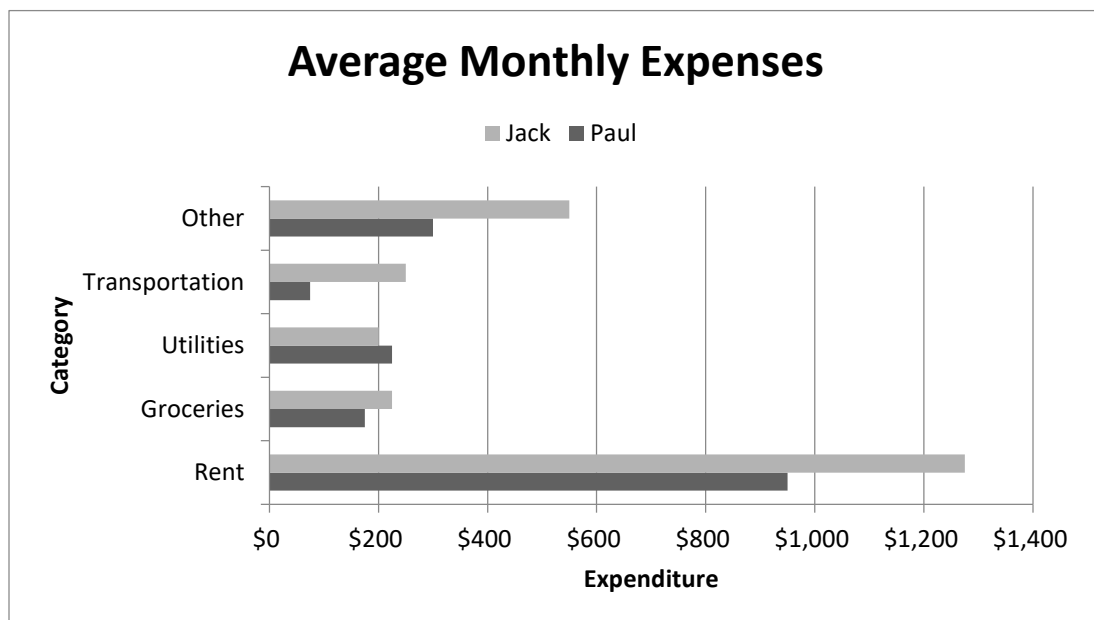Draw a **vertical** bar graph to represent the data:

12. The following histogram represents the scores of a math class on a recent test.

Student Marks on Math Test

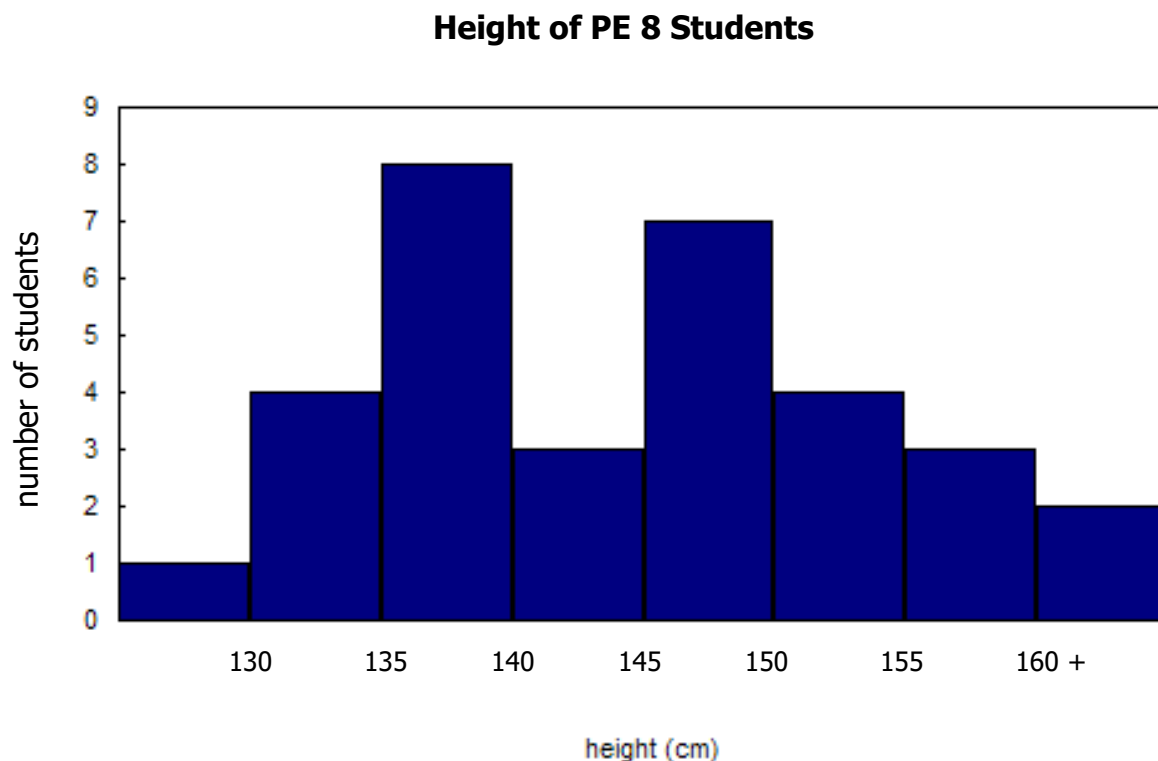a) How many students received a mark between 70% and 80%?

_____

b) How many students got below 60%?

_____

13. Paul and Jack completed a **horizontal double bar graph** comparing their monthly expenses:

Average Monthly Expenses

■ Jack   ■ Paul

Category (y-axis): Other, Transportation, Utilities, Groceries, Rent

Expenditure (x-axis): $0, $200, $400, $600, $800, $1,000, $1,200, $1,400

a) In which category does Paul spend more than Jack?   _____

b) How much does Paul spend on groceries?   _____

c) In which category do both Jack and Paul spend the most?   _____

d) Why would a broken line graph not be an appropriate representation of the data?

_____

_____

14. The heights of the students taking PE 8 in the first semester are represented in the following histogram:

Height of PE 8 Students

a) How many students are 160 cm or more tall? _____

b) How many students are between 150 and 160 cm tall? _____

c) In what range do the greatest number of students fall? _____

d) How many students are less than 140 cm tall? _____

15. The Polar Hamburger Stand kept track of the number of different kinds of burgers they sold yesterday.

a) Complete the table and prepare a circle graph for the data:

	Number	Percent	Degrees
Hamburger	19		
Cheeseburger	42		
Double-bacon Cheese burger	22		
Chicken burger	17		
Veggie burger	25		
Total	125		

b) Prepare a circle graph to represent the data: