



### Lesson #8: Understanding Graphs Assessment

#### Objectives

**Students will be able to...**

- Demonstrate an understanding of how to interpret statistics and graphs.

#### Common Core Standards

5.0 Problem Solving Critical Thinking 5.1, 5.3 & 6.0  
RSIT 11-12.2  
RLST 11-12.2

#### Materials

Understanding Graphs Assessment

#### Lesson Sequence

- Review understanding graphs vocabulary and important concepts. Answer any questions the students may have.
- Pass out the understanding graphs assessment.

#### Assessment

Review student answers on the understanding graphs assessment and review any questions students missed/any concepts students do still not understand.

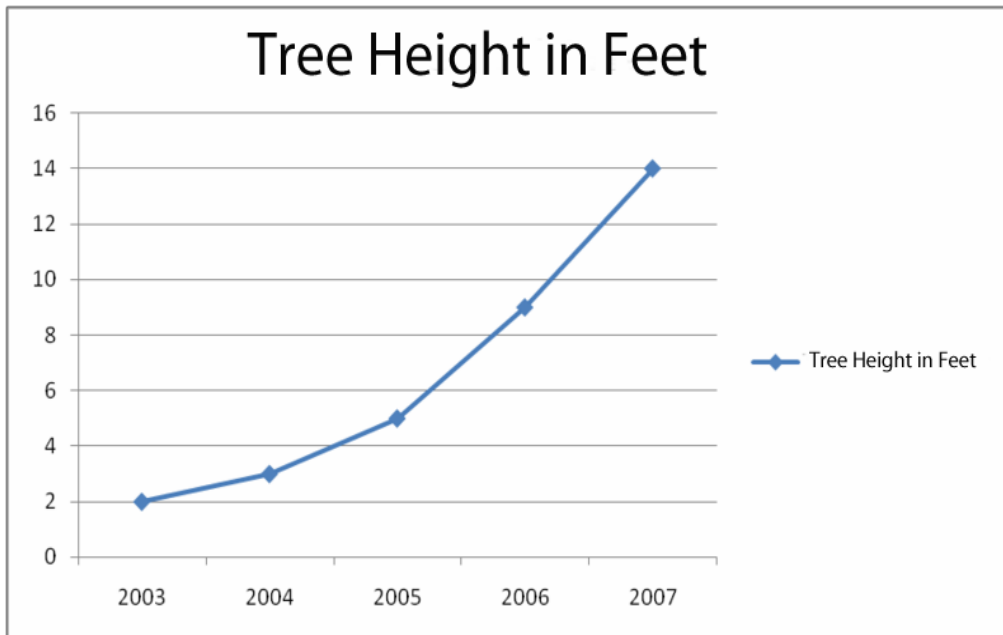
#### Accommodations/Modifications

Students may need assessment read aloud to them  
Provide answer choices  
Use class notes as a tool

### Understanding Graphs Final Assessment

Directions: Using the graph shown, write your answers to the questions in the spaces provided.

**Graph 1: Line Graph**



1. What is the graph about?

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2. What information is presented on the vertical (y) axis?

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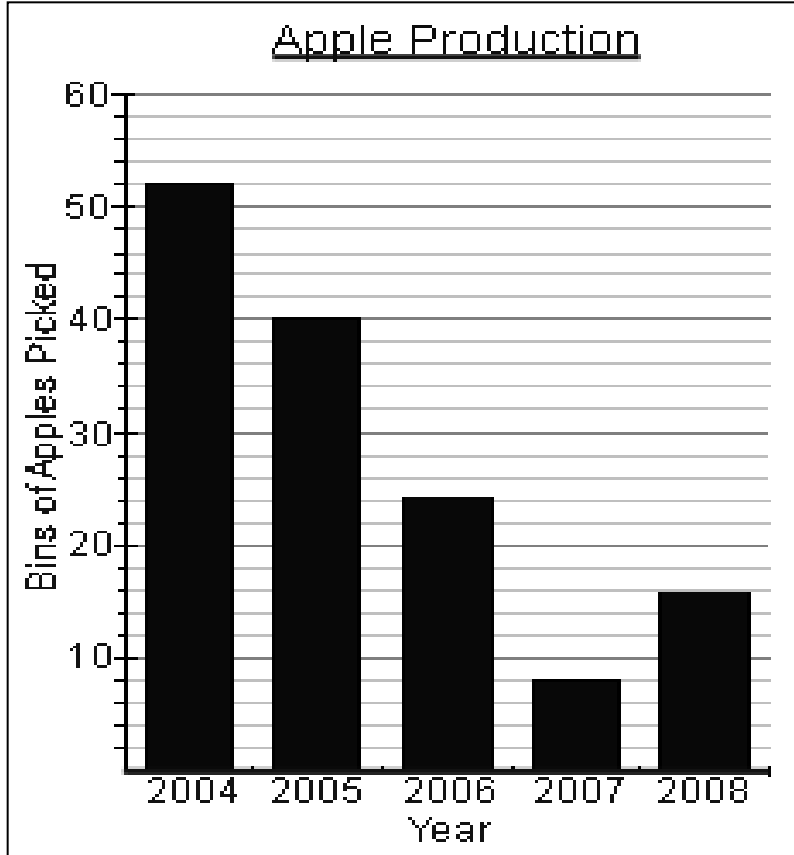
3. What information is presented on the horizontal (x) axis?

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4. What patterns do you see?

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Graph 2: Vertical Bar Graph



5. What is the graph about?

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6. What information is presented on the vertical (y) axis?

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7. What information is presented on the horizontal (x) axis?

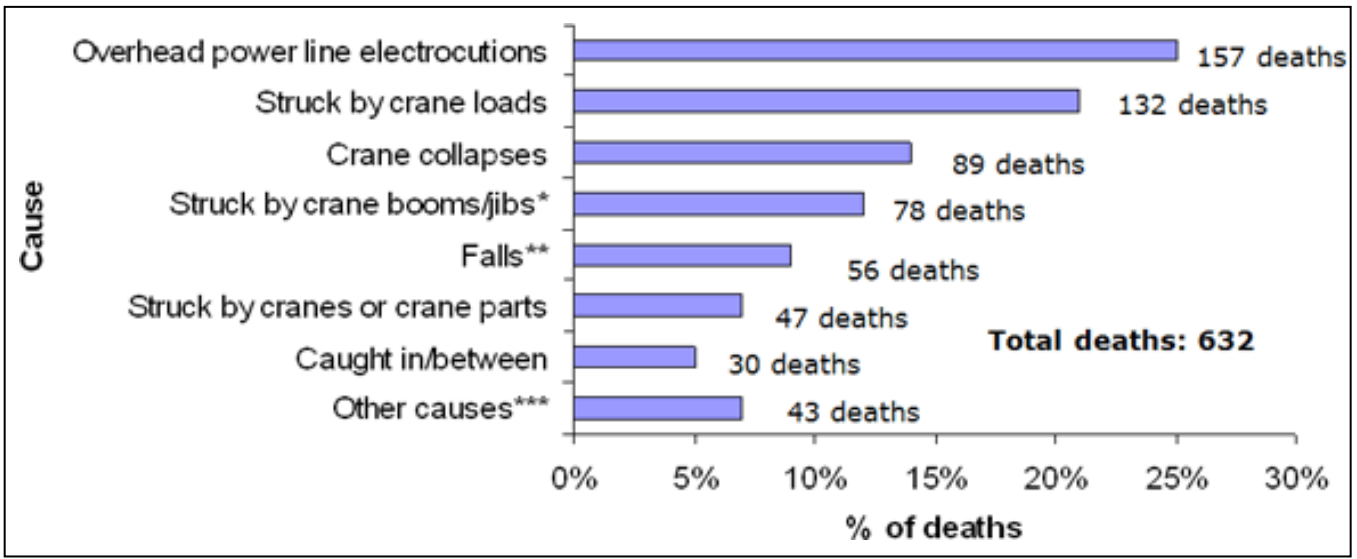
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8. What patterns do you see?

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**Graph 3: Horizontal Bar Graph**

Understanding Crane Accidents



9. What is the graph about?

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10. What information is presented on the vertical (y) axis?

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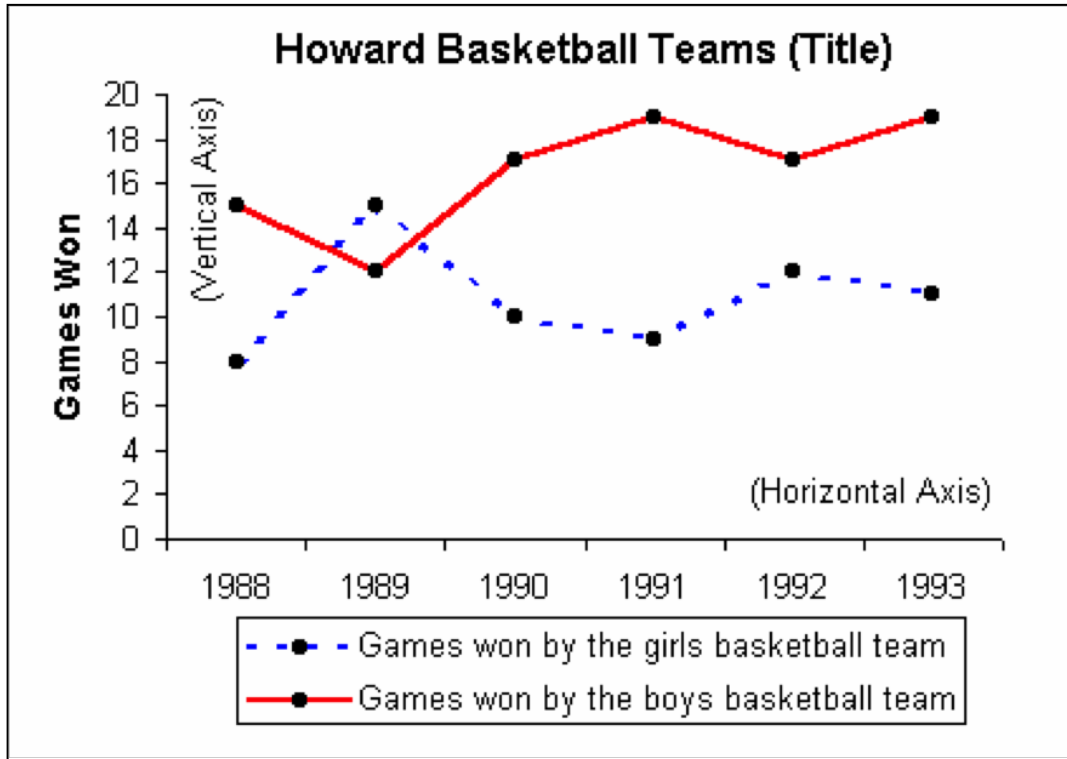
11. What information is presented on the horizontal (x) axis?

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12. What patterns do you see?

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Graph 4: Double Line Graph



13. What is the graph about?

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14. What information is presented on the vertical (y) axis?

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15. What information is presented on the horizontal (x) axis?

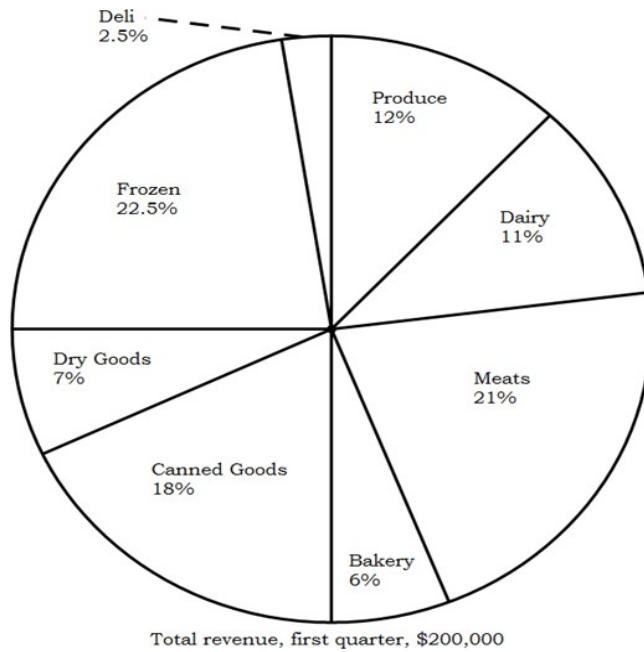
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16. What patterns do you see?

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**Graph 5: Circle/Pie Graph**

**Fast Lane Grocery Store Profits-Quarterly**



17. What is the graph about?

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18. What information is presented on the vertical (y) axis?

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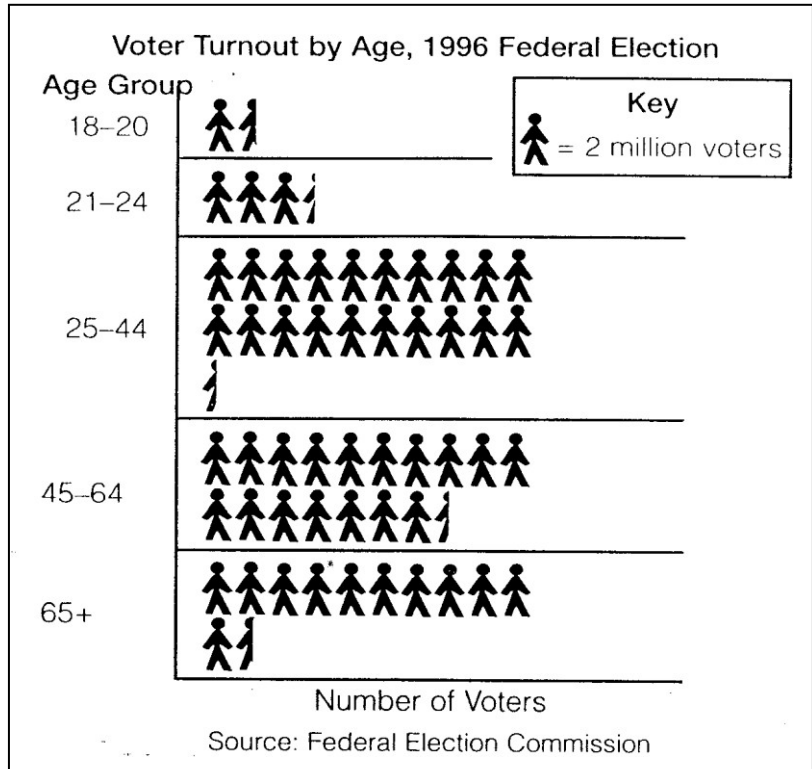
19. What information is presented on the horizontal (x) axis?

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20. What patterns do you see?

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**Graph 6: Pictograph**



17. What is the graph about?

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18. What information is presented on the vertical (y) axis?

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19. What information is presented on the horizontal (x) axis?

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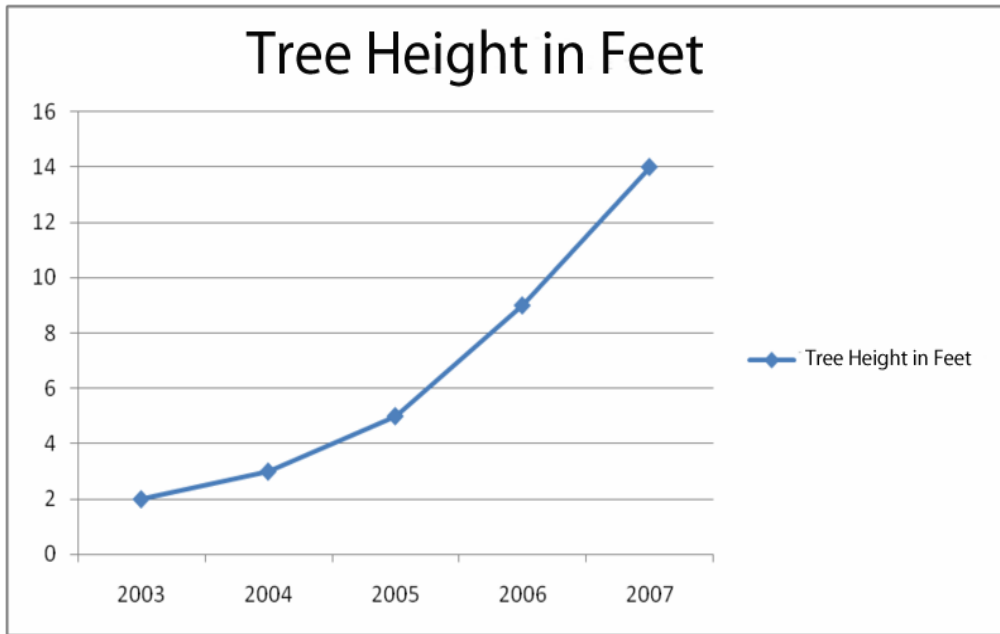
20. What patterns do you see?

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**Understanding Graphs Final Assessment -Answer Key**

Directions: Using the graph shown, write your answers to the questions in the spaces

provided. Graph 1: Line Graph



1. What is the graph about?

Tree height in feet, between 2003 and 2007 or how tall a tree has grown

2. What information is presented on the vertical (y) axis?

The scale used to measure the of tree in Feet

3. What information is presented on the horizontal (x) axis?

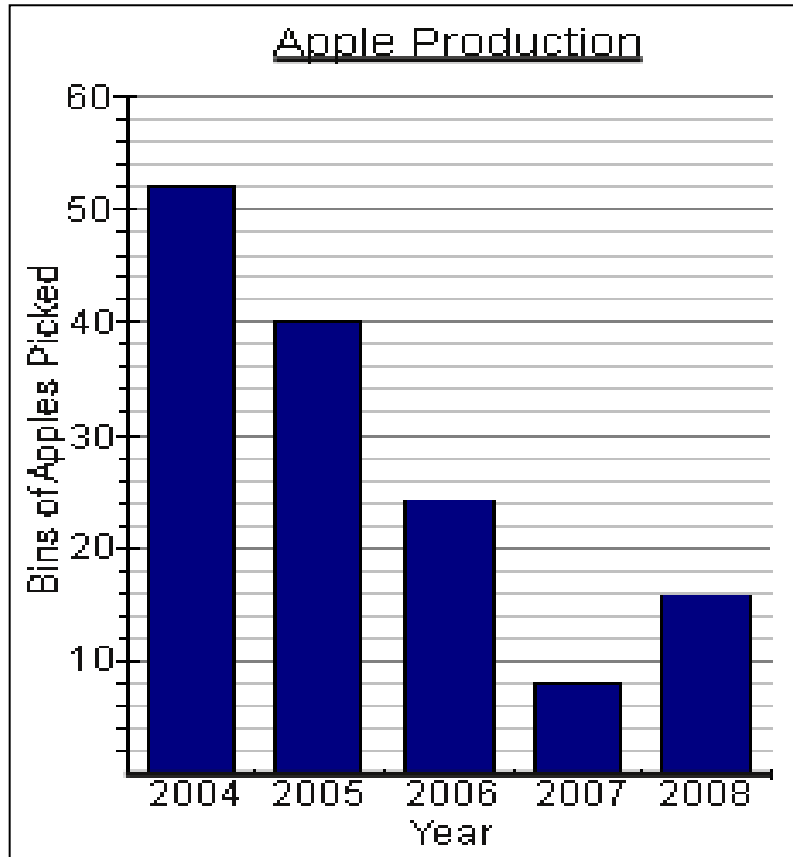
The years that were used to chart the height.

4. What patterns do you see?

The tree really started to grow after 2005



Graph 2: Vertical Bar Graph



5. What is the graph about?

Apple Production

6. What information is presented on the vertical (y) axis?

The number of bins of apples picked.

7. What information is presented on the horizontal (x) axis?

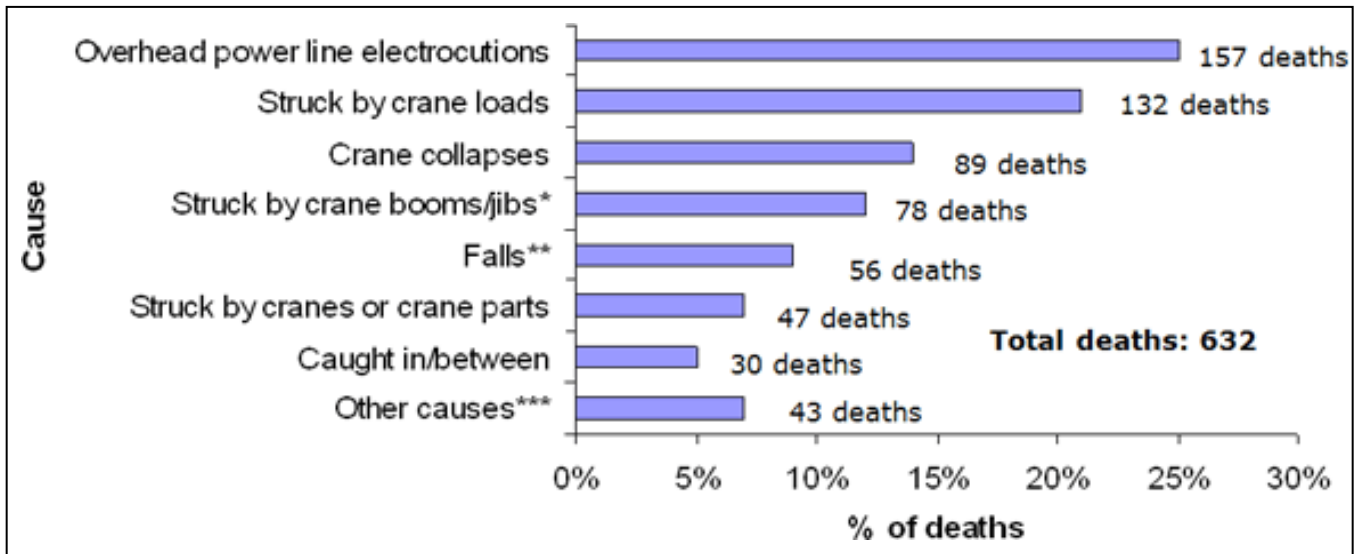
The years in which the bins were counted.

8. What patterns do you see?

The most apples were picked in 2004 and then started to decrease.

**Graph 3: Horizontal Bar Graph**

Understanding Crane Accidents



9. What is the graph about?

Looking at types of crane accidents.

10. What information is presented on the vertical (y) axis?

The type of accidents

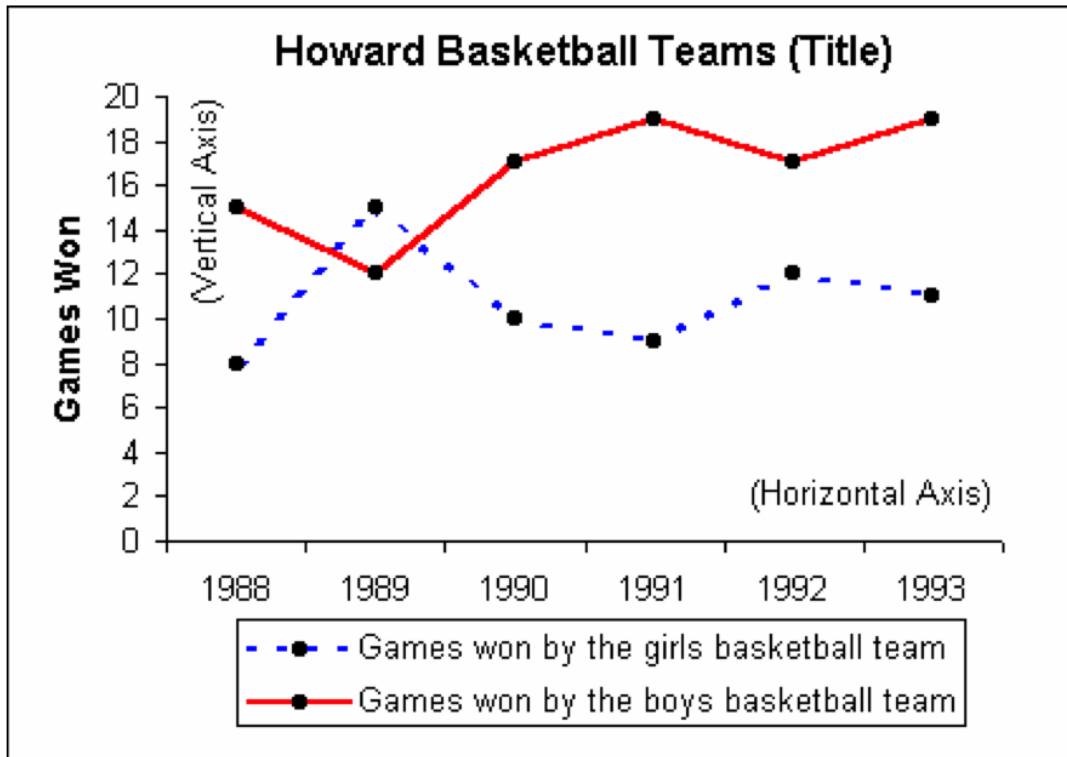
11. What information is presented on the horizontal (x) axis?

How many of each type of accident in a percentage that led to death.

12. What patterns do you see?

The least amount of accidents causing death were caught in between accidents, and the largest amount of accidents were electrocutions from hitting overhead power lines.

Graph 4: Double Line Graph



13. What is the graph about?

Boys' and girls' basketball teams from Howard and comparing how many titles they have won

14. What information is presented on the vertical (y) axis?

The number of games won.

15. What information is presented on the horizontal (x) axis?

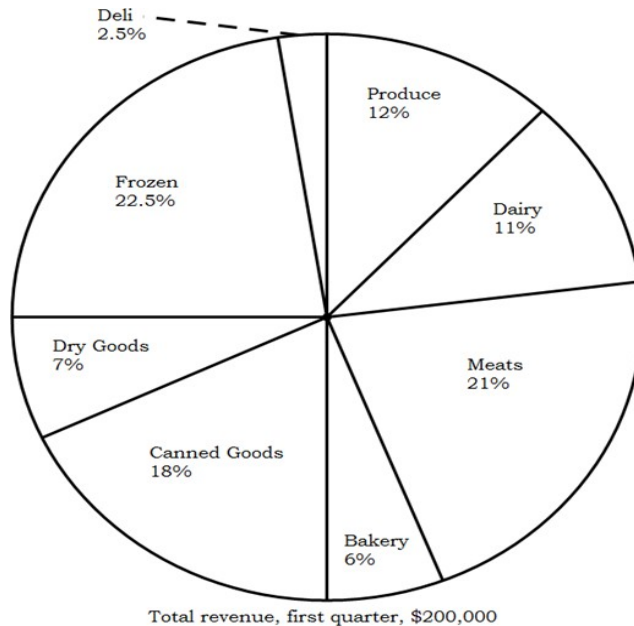
The years that the games were played in.

16. What patterns do you see?

The boys' team won more titles and more games. The girls won the most games in 1989.

**Graph 5: Circle/Pie Graph**

**Fast Lane Grocery Store Profits-Quarterly**



17. What is the graph about?

The Fast Lane Grocery Store's profit.

18. What percent of total profit is from the sale of Produce?

12% of the profit is from the sale of Produce.

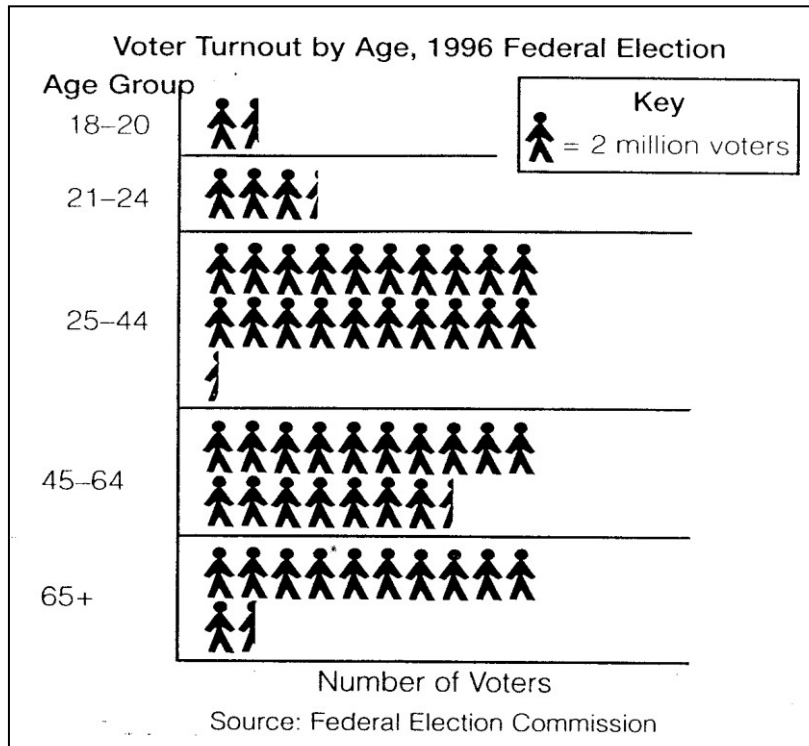
19. What area of sales makes the most money for the store?

The Frozen Foods sales make the most money.

20. What patterns do you see to help the store owner raise his revenue/profit?

The Deli and Bakery make the least amount so I would improve those areas. Or accept any other area if the student has a reason.

**Graph 6: Pictograph**



21. What is the table about?

Voter turnout by age in the 1968 Federal Election.

22. What information is presented on the vertical (y) axis?

The age group of the voters

23. What information is presented on the horizontal (x) axis?

The number of voters.

24. What do you notice about the figures?

Some are part of a whole to represent a portion of the 2 million voters.