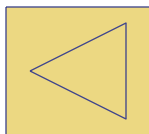# Using Data to Make Graphs
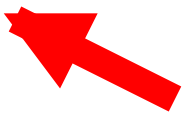
Created by George Pitlik

For the Texas Center for Academic Excellence © 2002

TEK 5.13C

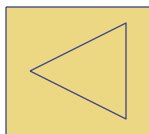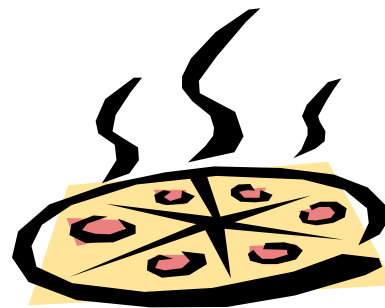# What Is Data?

Data is information.

An example:

In my fifth grade class we took a pizza lovers survey.

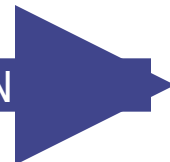We learned that ten kids liked pepperoni pizza best.

Nine kids liked sausage pizza best.

Seven kids liked cheese pizza best.

This information is called DATA.

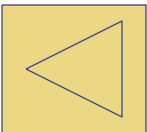# What Is Data?

If a mom was planning a pizza party for the class, she would need the pizza lovers survey DATA.

I need to order 10 pepperoni, 9 sausage and 7 cheese pizzas.

GO ON

What Is Data?

Your report card is another example of **data**.
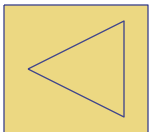
Math: 88%

Reading: 94%

Science: 75%

Social Studies: 80%
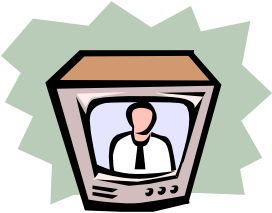
Language Arts: 55%

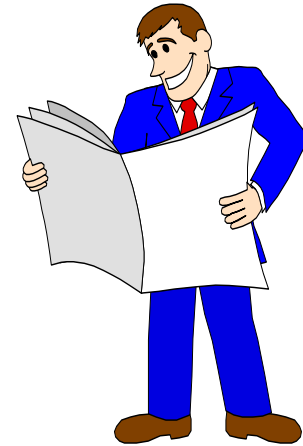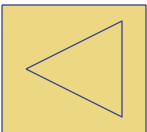My Language Arts teacher may not like me.
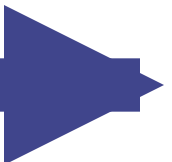
Data Is Everywhere.

TV
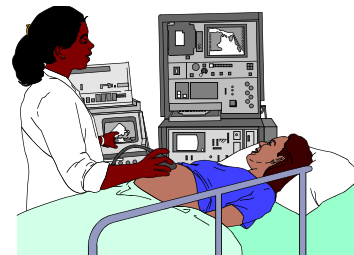
Newspaper

Books

There is way too much data in school!
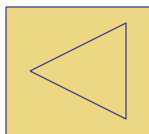
How Do People Use Data?

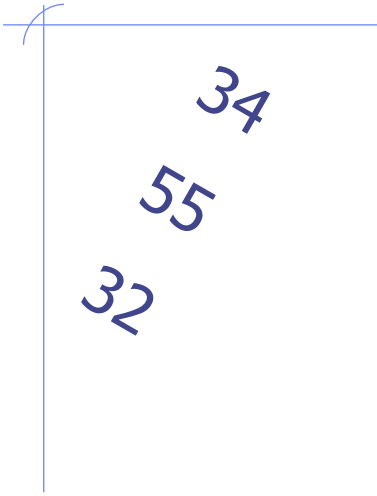The data from the test will help us cure your disease.

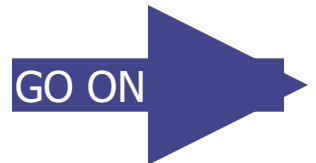We use data to make money.

Data is needed to build things.

GO ON

Data Can Be Confusing.
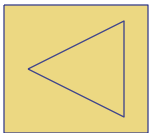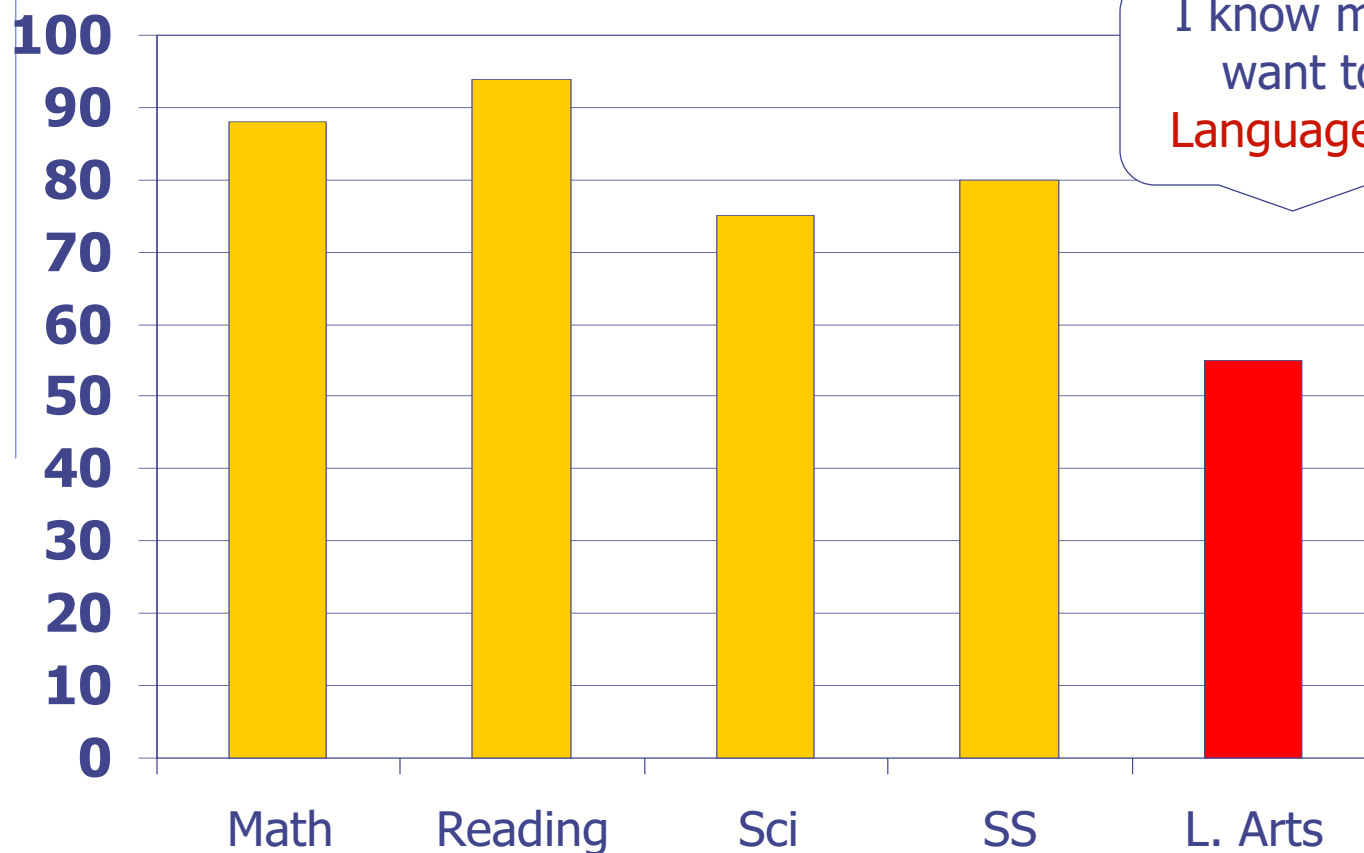
34

55

32

88%

97%

76%
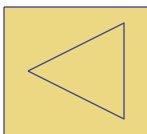
85%

100%

$134.00

$231.00

$450.95

$319.63

$750.90

We Use Graphs to Organize Data.

Graphs Make Data Easier to Understand.

Below is data without a graph.

Animals on the farm

Cows	124
Chickens	450
Turkeys	388
Horses	56
Mules	110

Chickens rule!
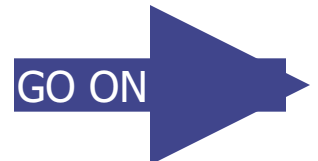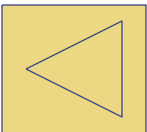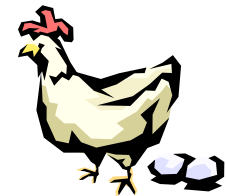
GO ON

Data WITH A Graph.

Animals on the farm

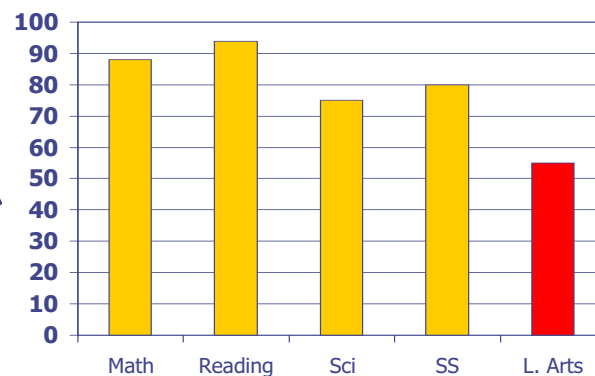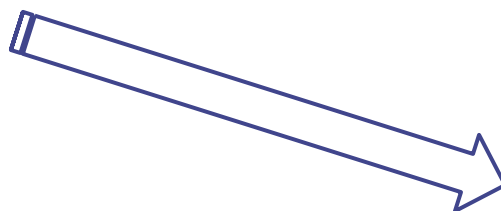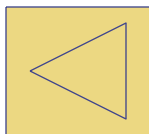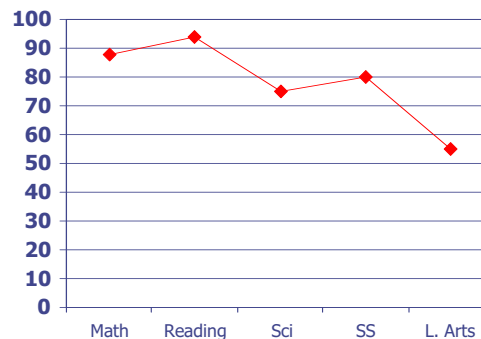| Cows	124
Chickens	450
Turkeys	388
Horses	56
Mules	110
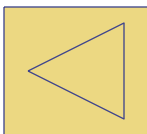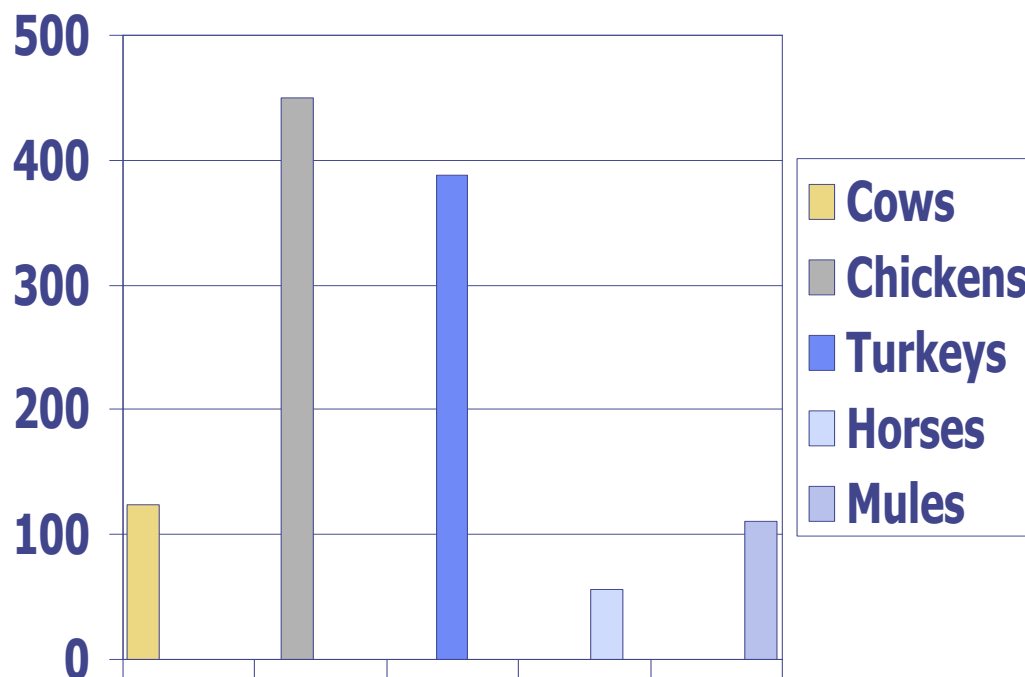
Let's Learn About Graphs.

There are many different types of graphs.
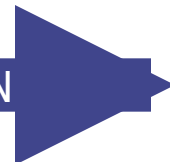
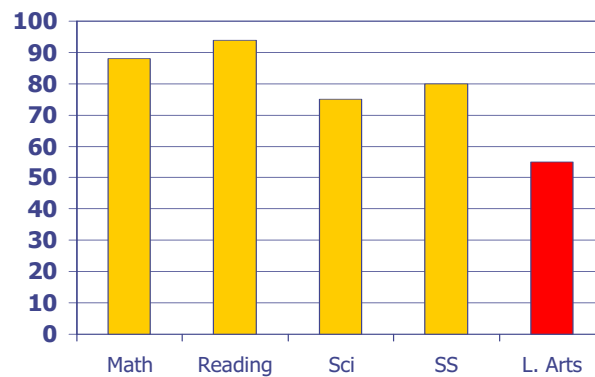Let's learn about two kinds.

1. The bar graph

2. The line graph
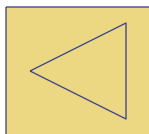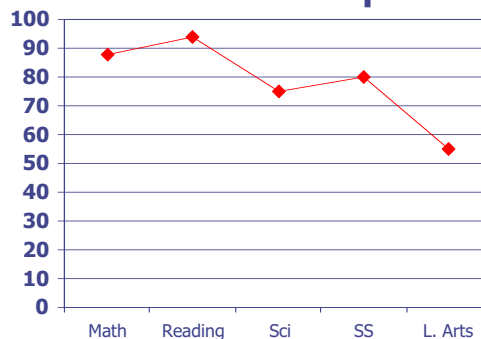
Different Types of Graphs Can Show the Same Data.

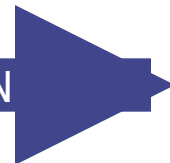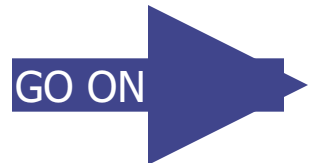Awesome! These graphs show the same data!

Bar Graph

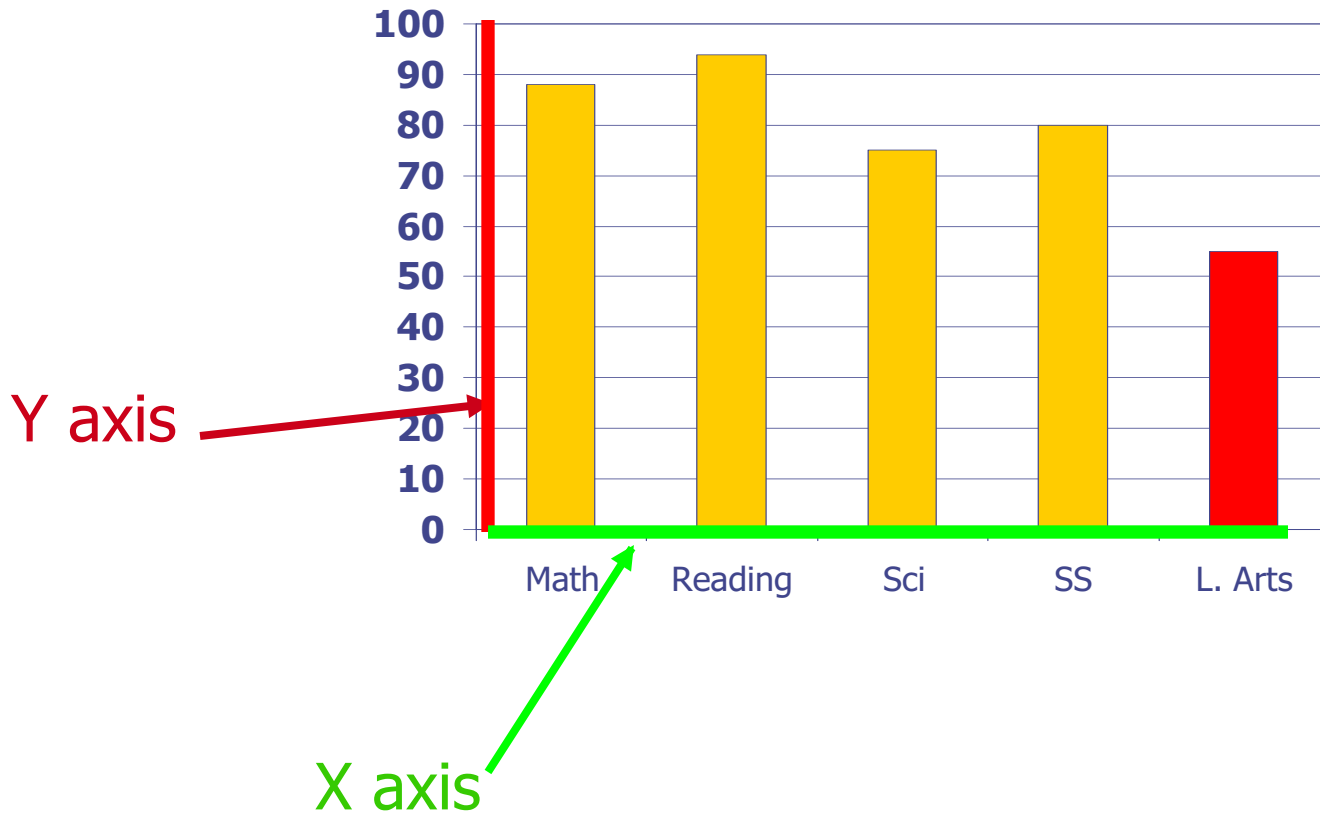|	
Math	88
Reading	94
Sci	75
SS	80
L. Arts	55

Line Graph

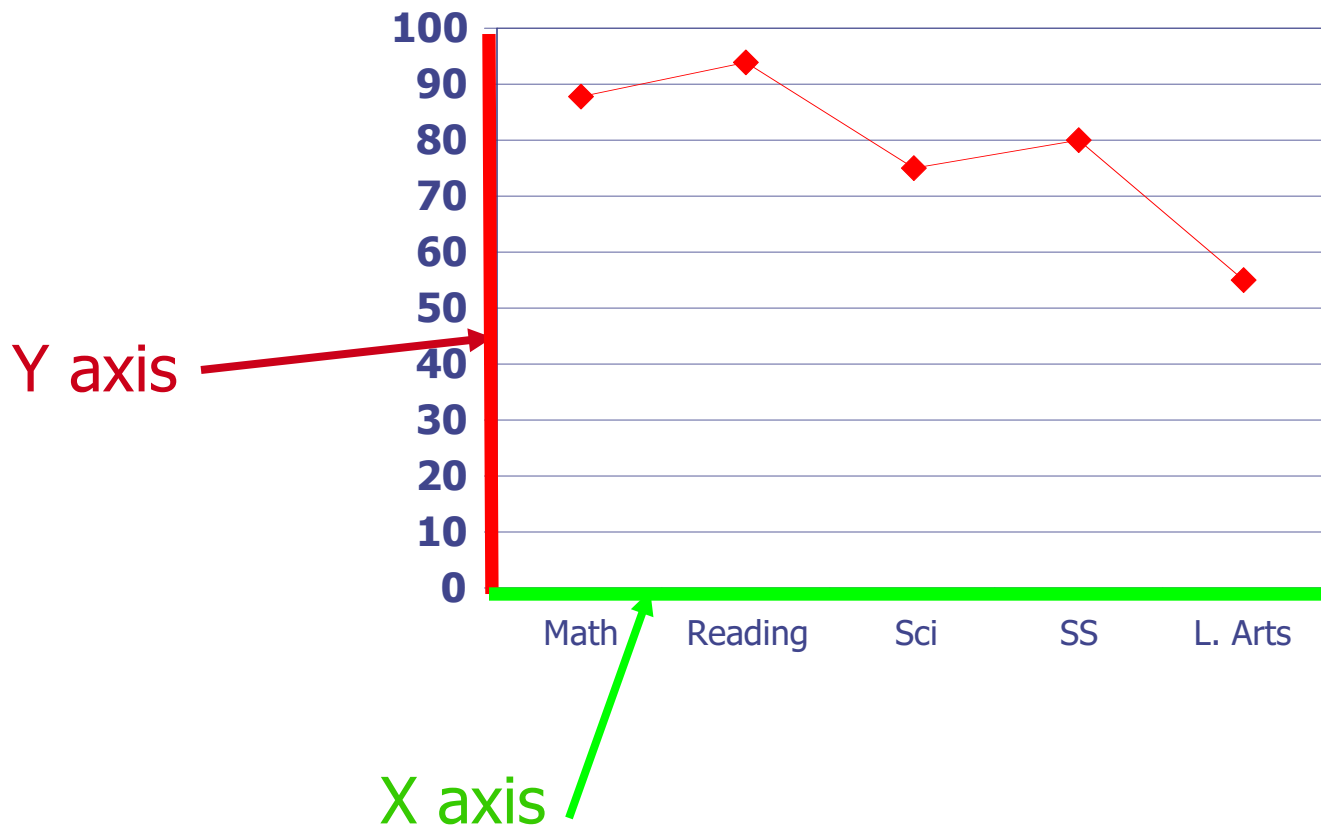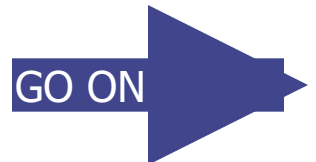|	
Math	88
Reading	94
Sci	75
SS	80
L. Arts	55

Check Out the Bar Graph.
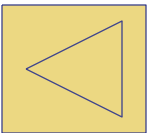
Check Out the Line Graph.

How To Read A Bar Graph.

My Grades

90

55

Math   Reading   Sci   SS   L. Arts
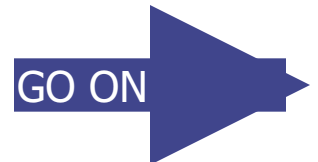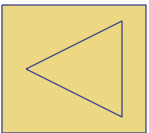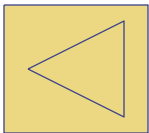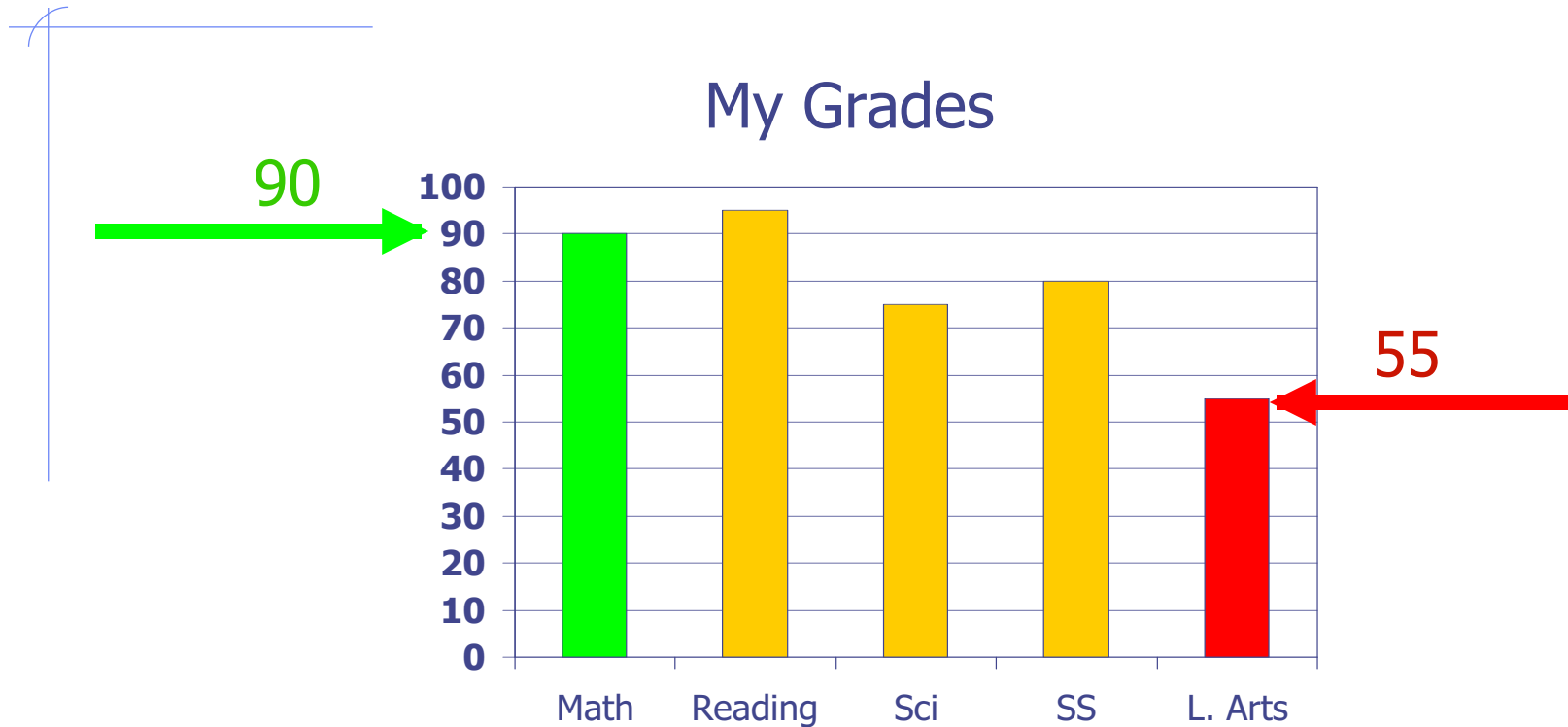
Learn More About Bar Graphs.

Animals on the farm

Bar graph showing: Cows 125, Chickens 450, Turkeys 300, Horses 50, Mules 100. Y-axis scale from 0 to 500.
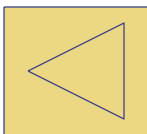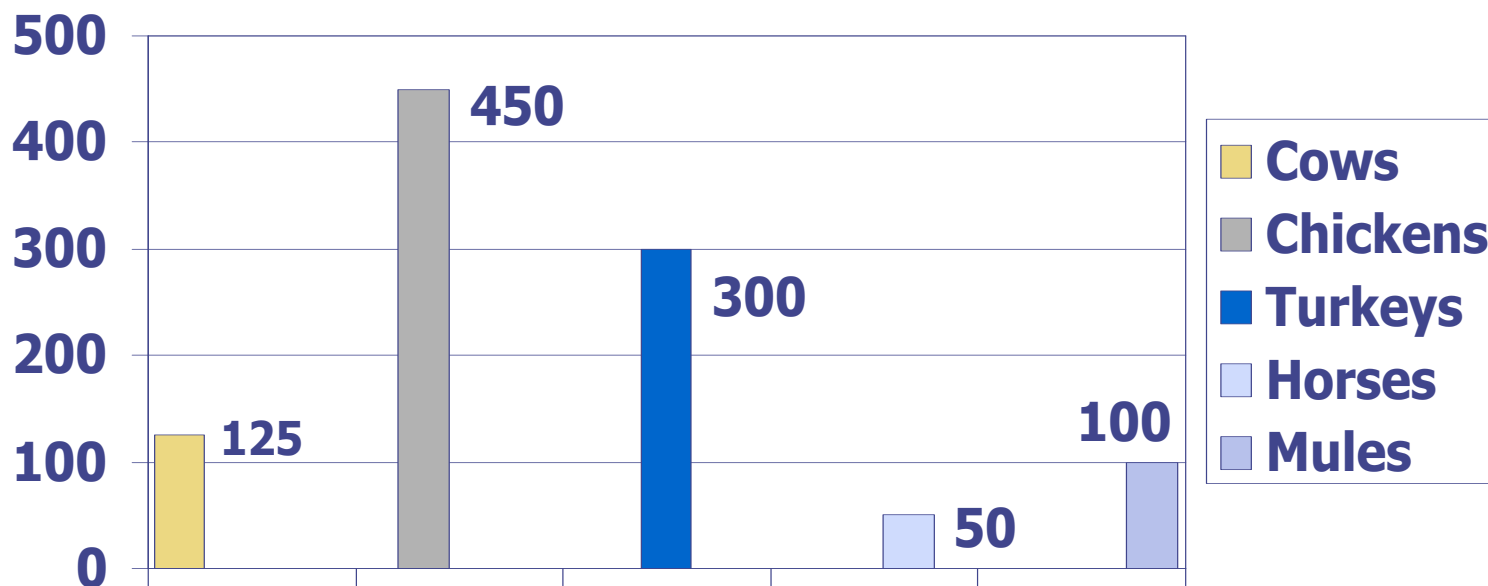
A Challenge.

Feet
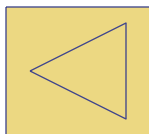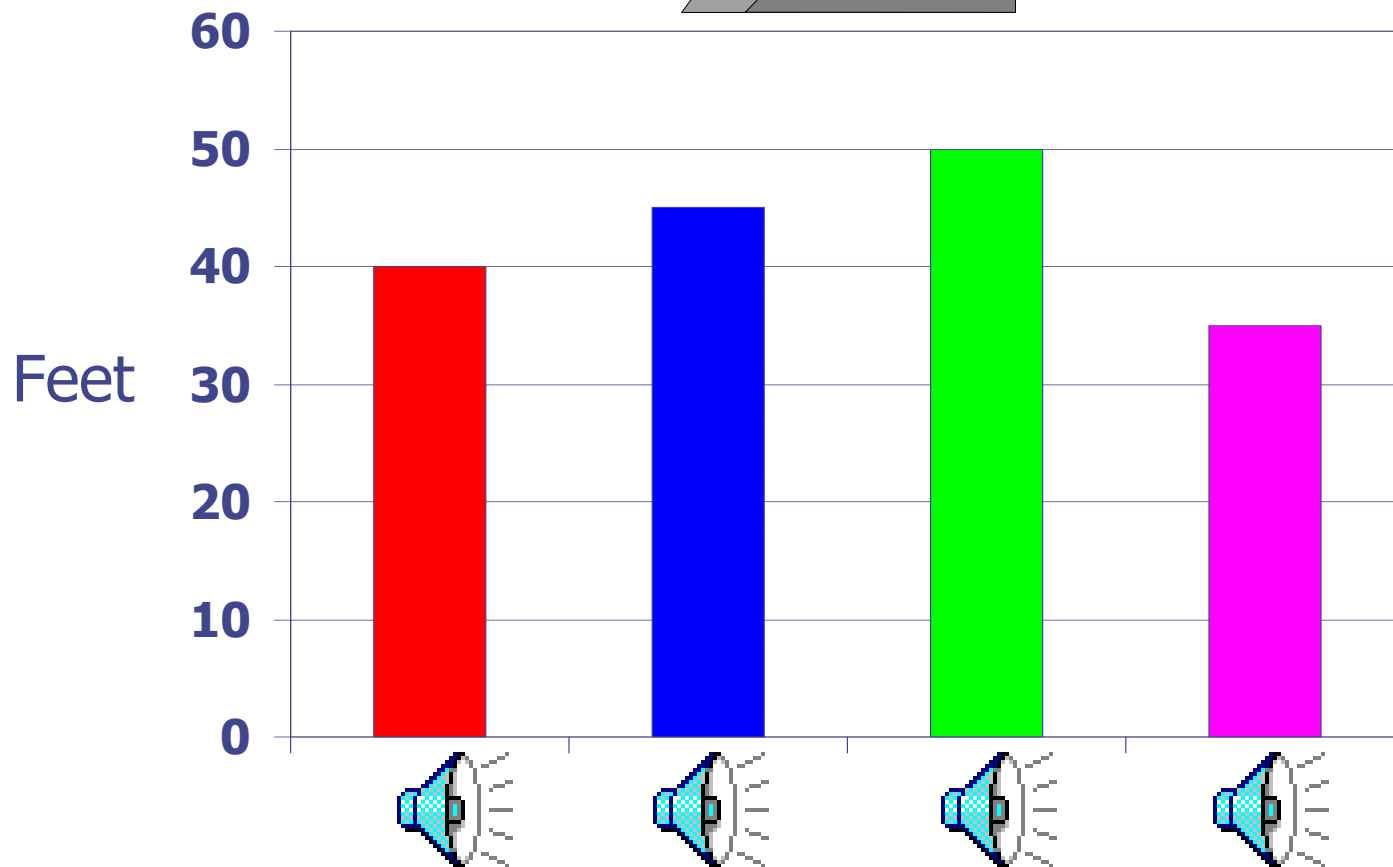
GO ON

Another Challenge

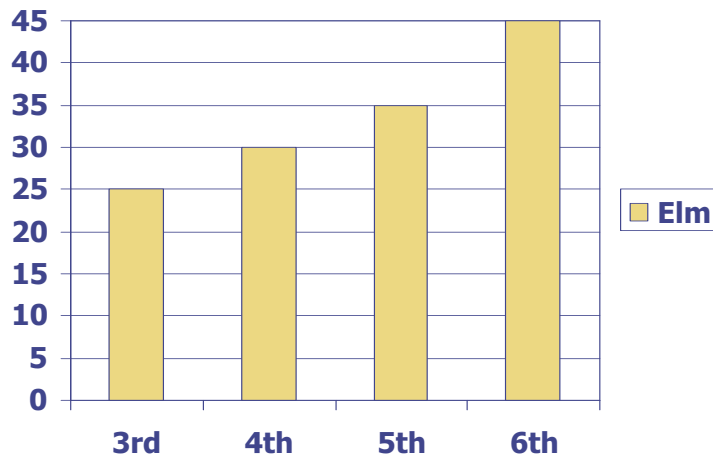

Feet

60
50
40
30
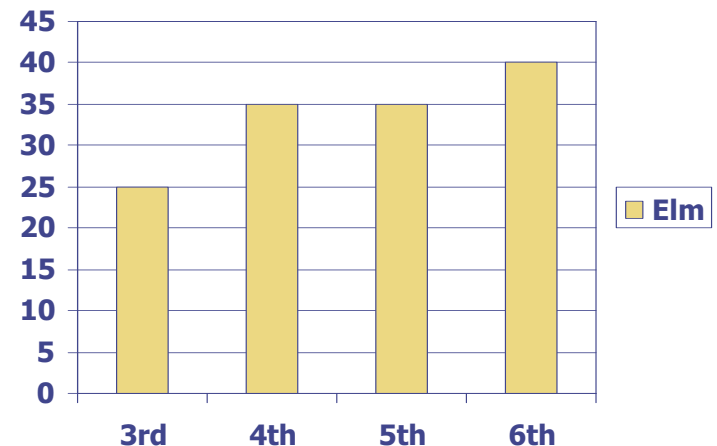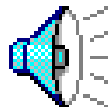20
10
0
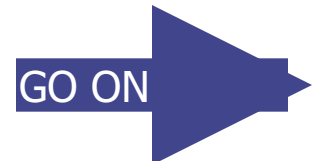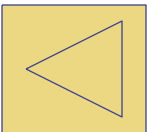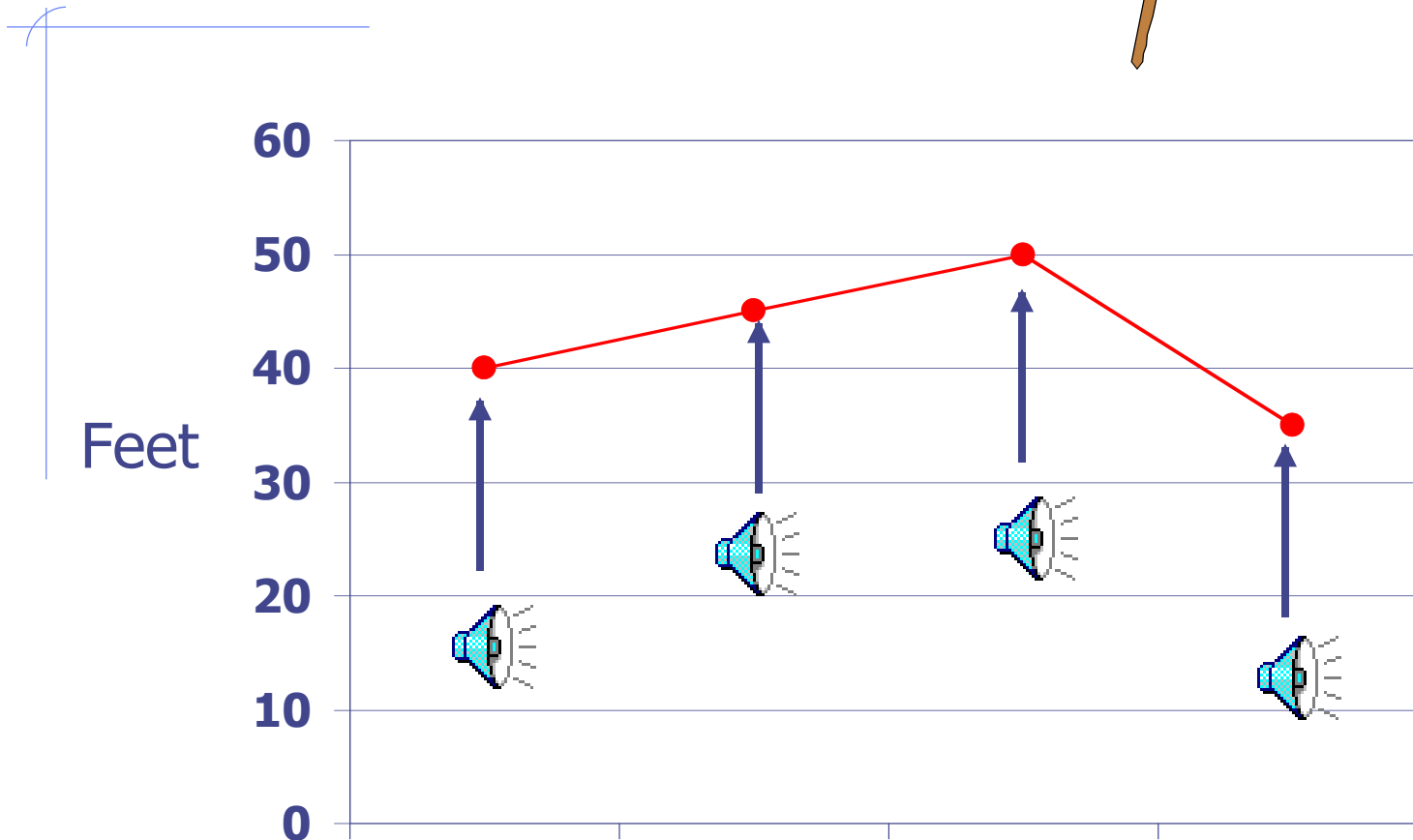
Let's Test Your Skills.

At Elm Street School students have computer class once a week. The chart shows the number of minutes each class spends in the computer lab.

Class	3rd grade	4th grade	5th grade	6th grade
Number of minutes	25	30	35	45

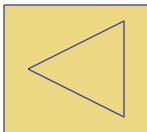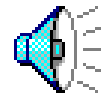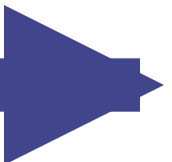Which is the most appropriate graph of the information shown in the chart?
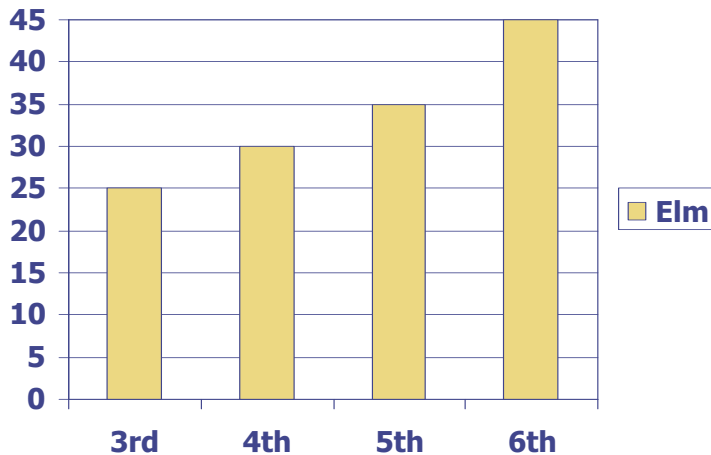
Graph A

Graph B
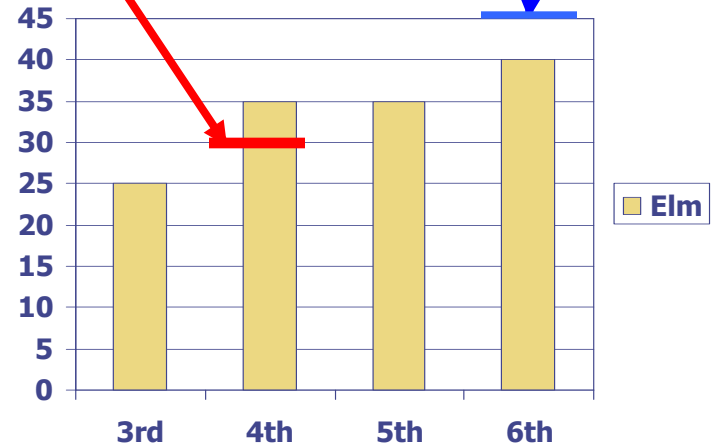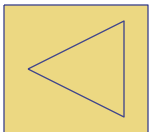
GO ON

What Is Wrong With Graph B?

At Elm Street School students have computer class once a week. The chart shows the number of minutes each class spends in the computer lab.

Class	3rd grade	4th grade	5th grade	6th grade
Number of minutes	25	30	35	45

Which is the most appropriate graph of the information shown in the chart?
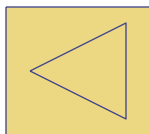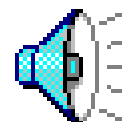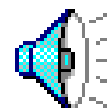
Graph A

Graph B
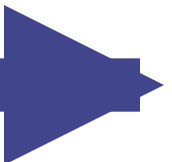
Fun Page.
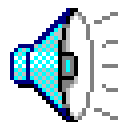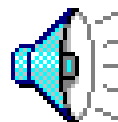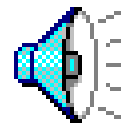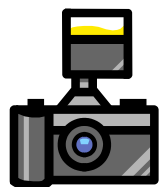
GO ON

Congratulations, You Made It!

My brain hurts!