

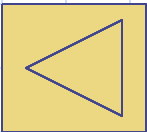
Using Data to Make Graphs

Created by George Pitlik

For the Texas Center for Academic Excellence

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TEK 5.13C





What Is Data?

Data is information.

An example:

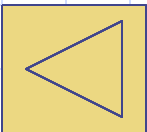
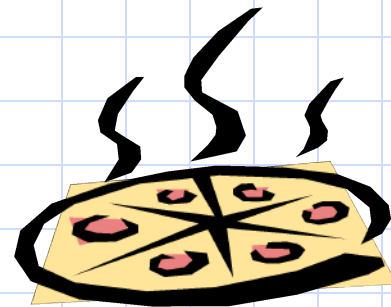
In my fifth grade class we took a pizza lovers survey.

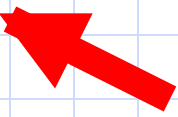
We learned that ten kids liked pepperoni pizza best.

Nine kids liked sausage pizza best.

Seven kids liked cheese pizza best.

This information is called **DATA**.



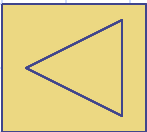


What Is Data?

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.





What Is Data?

Your report card is another example of **data**.

Math: 88%

Reading: 94%

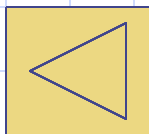
Science: 75%

Social Studies: 80%

Language Arts: 55%

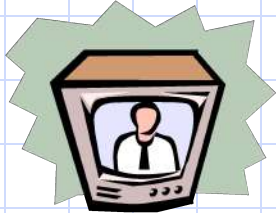


My Language Arts teacher may not like me.



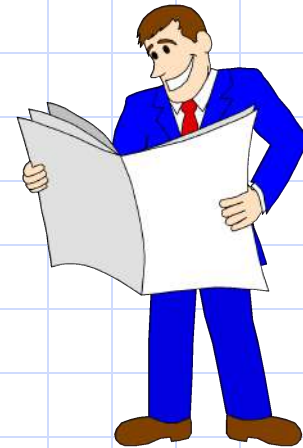


Data Is Everywhere.



TV

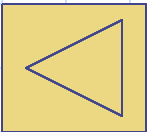
Newspaper



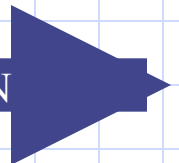
Books



There is way too
much data in
school!



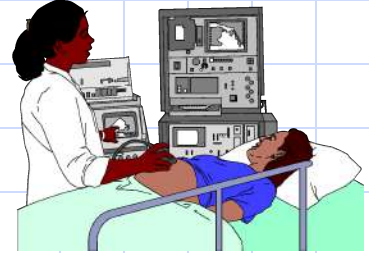
GO ON





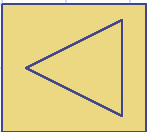
How Do People Use Data?

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



We use data to make money.

Data is needed to build things.



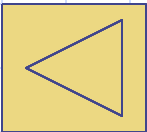


Data Can Be Confusing.

32
55
34

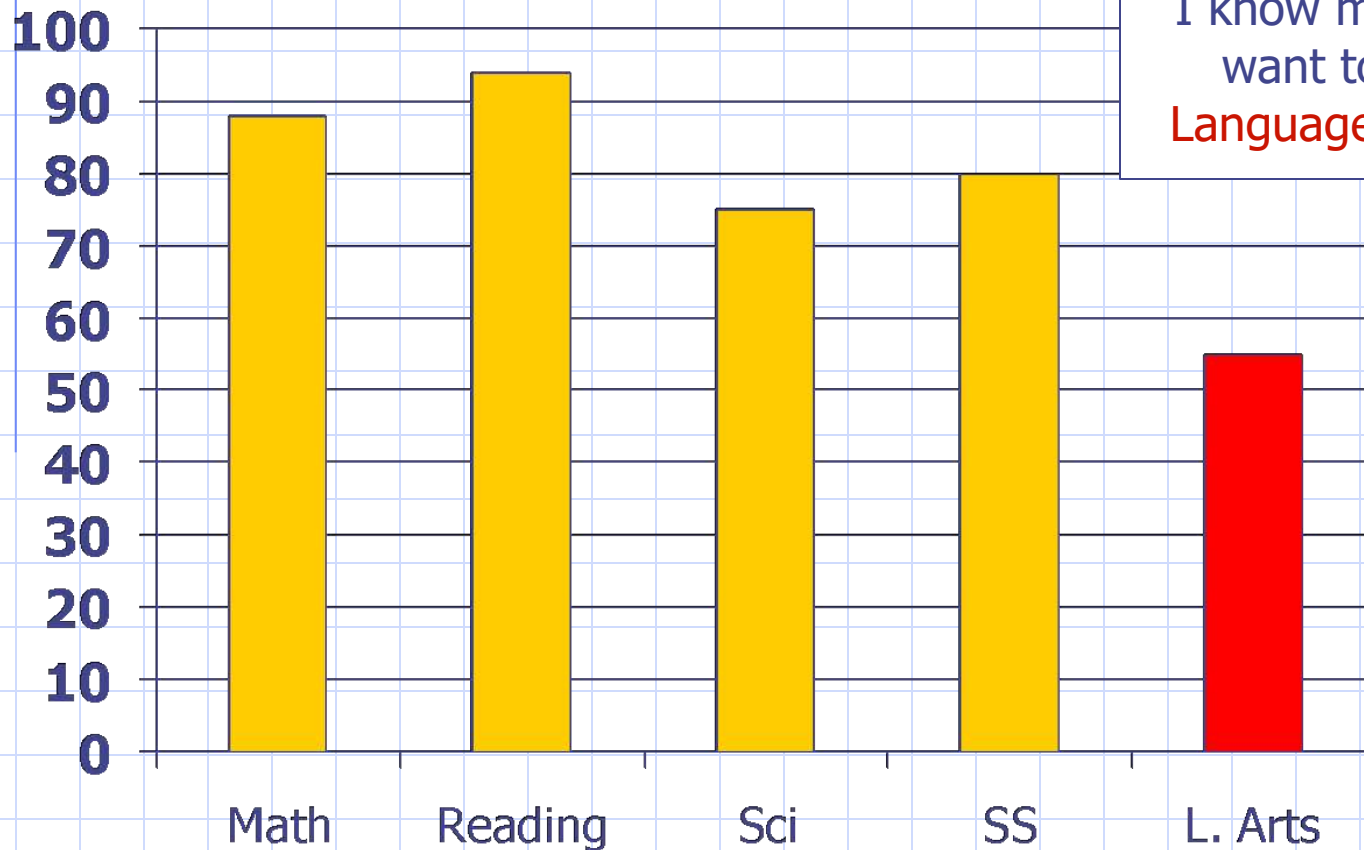
88%
97%
76%
85%
100%

\$134.00
\$231.00
\$450.95
\$319.63
\$750.90

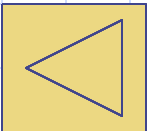




We Use Graphs to Organize Data.



I know my parents will want to talk to my **Language Arts** teacher.





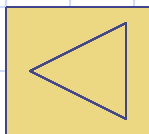
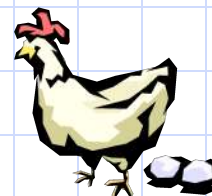
Graphs Make Data Easier to Understand.

Below is data without a graph.

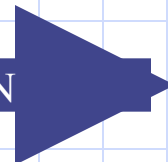
Animals on the farm

Cows	124
Chickens	450
Turkeys	388
Horses	56
Mules	110

Chickens
rule!



GO ON

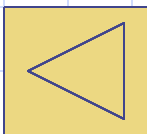
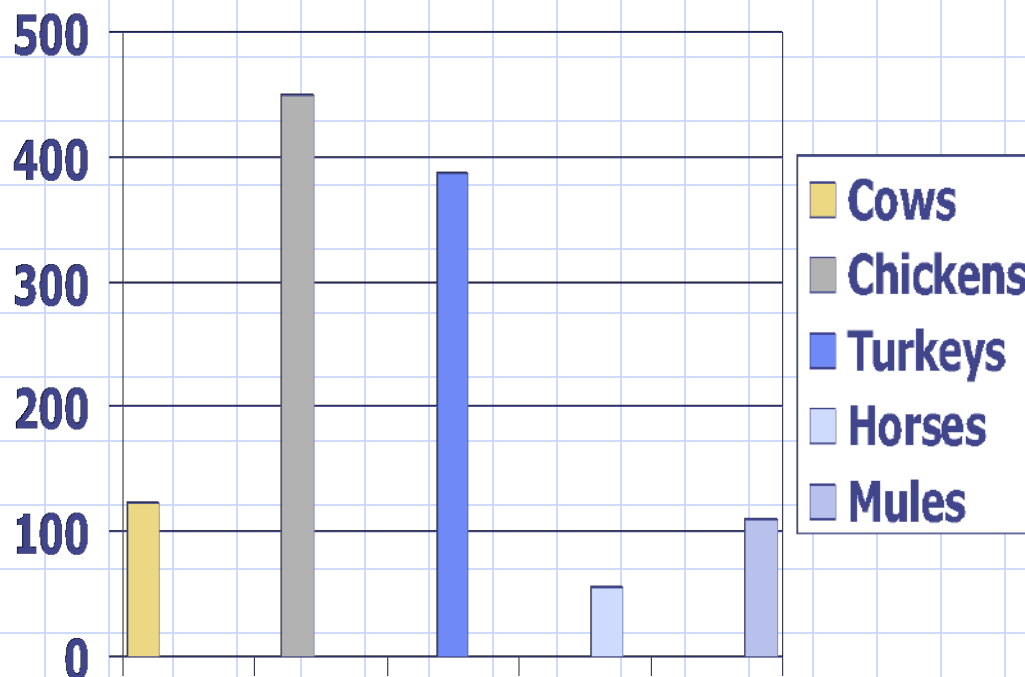




Data WITH A Graph.

Cows	124
Chickens	450
Turkeys	388
Horses	56
Mules	110

Animals on the farm



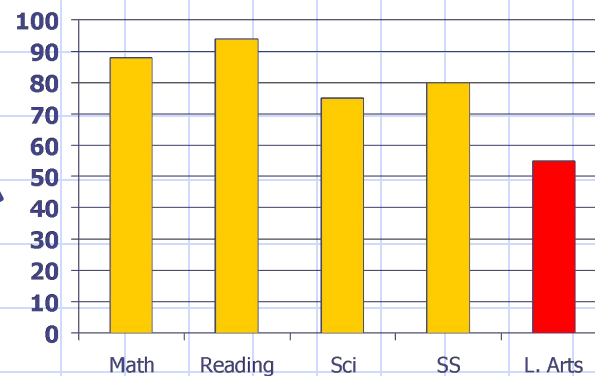
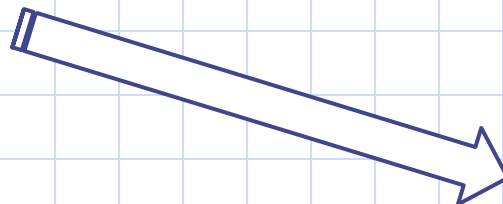


Let's Learn About Graphs.

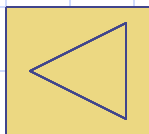
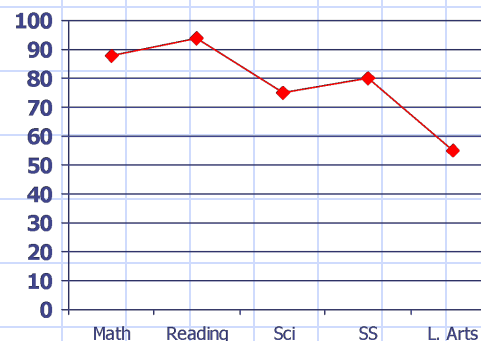
There are many different types of graphs.

Let's learn about two kinds.

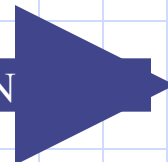
1. The bar graph



2. The line graph



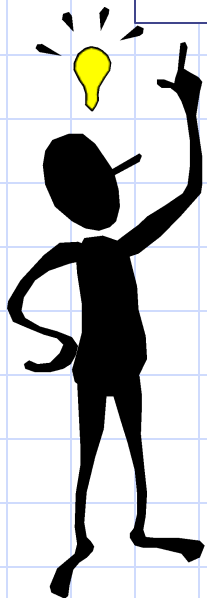
GO ON



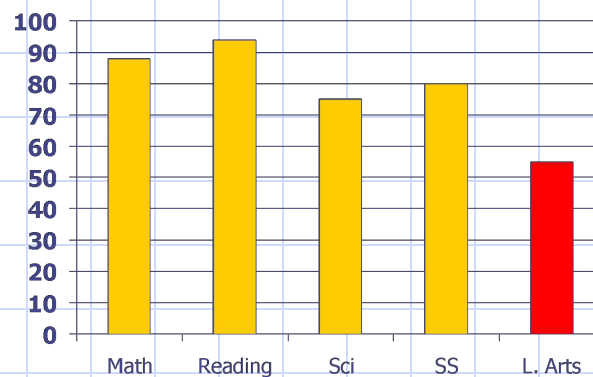


Different Types of Graphs Can Show the Same Data.

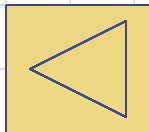
Awesome! These graphs show the same data!



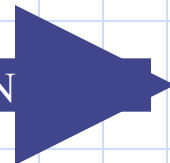
Bar Graph



Line Graph

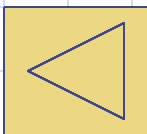
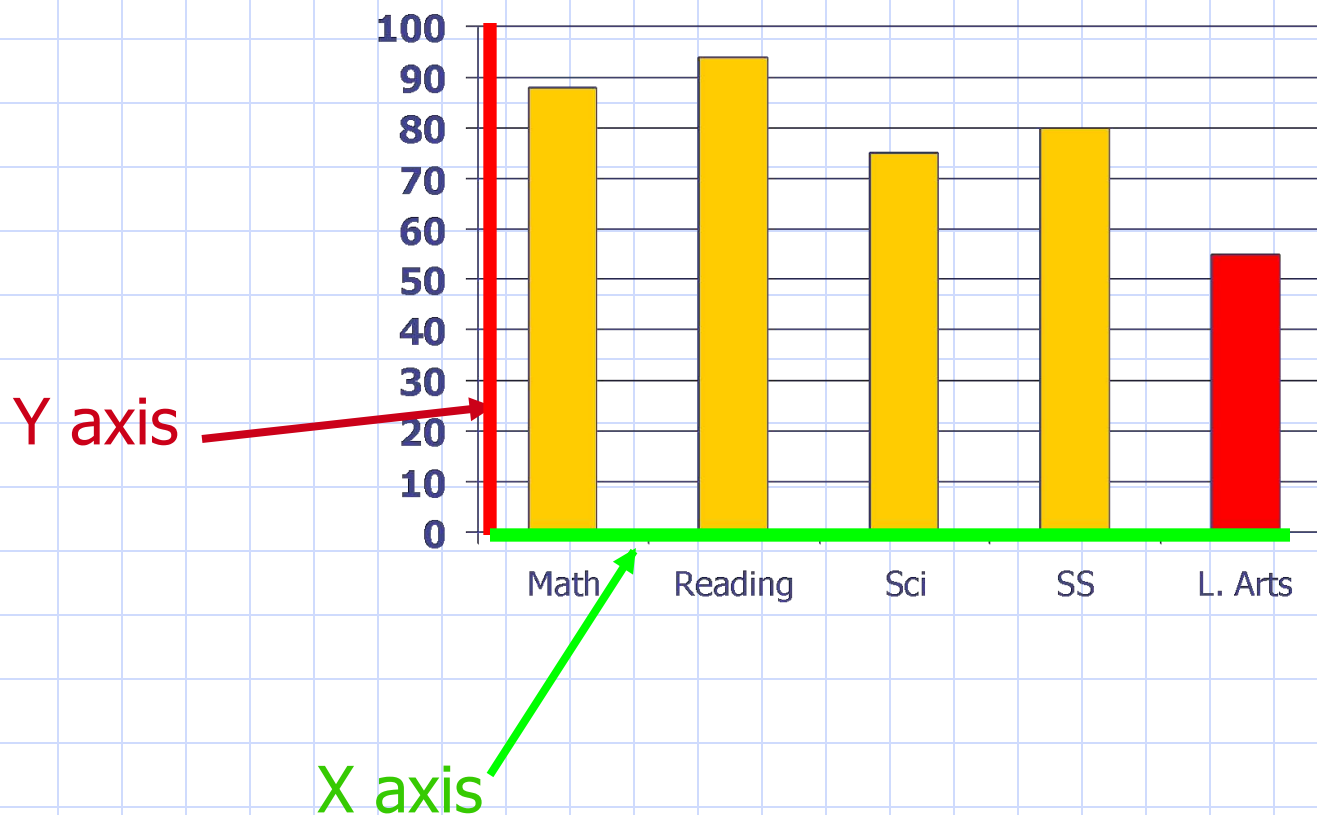


GO ON



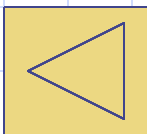
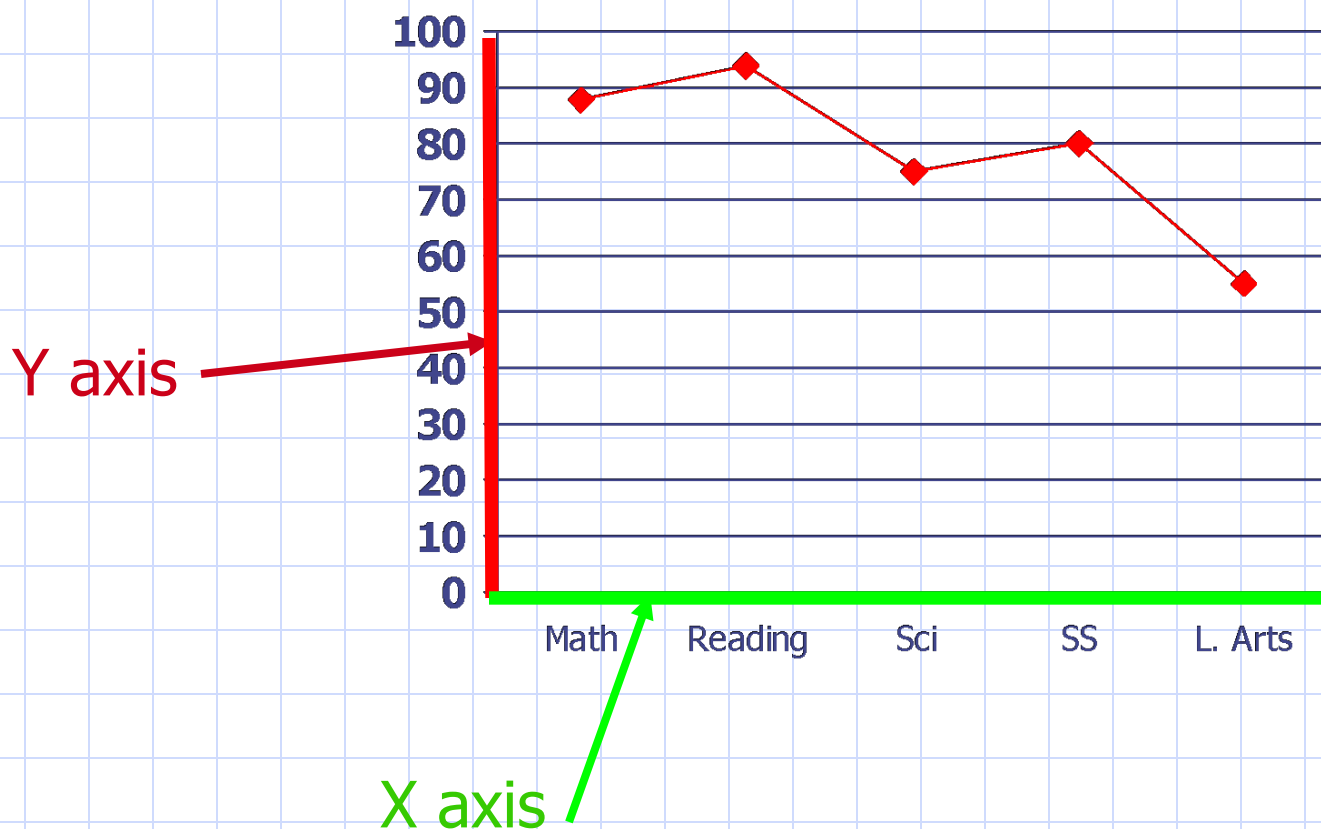


Check Out the Bar Graph.



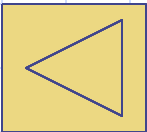
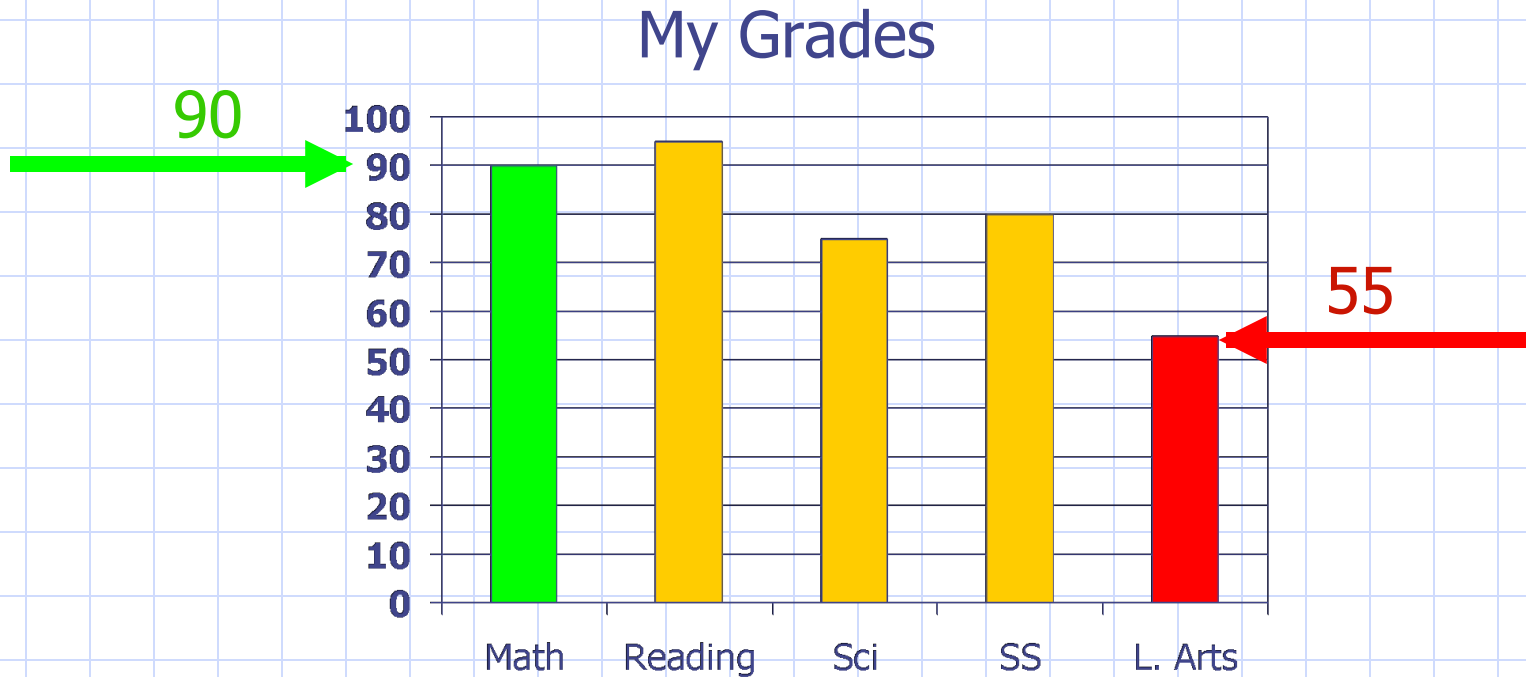


Check Out the Line Graph.





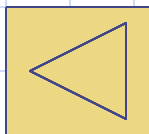
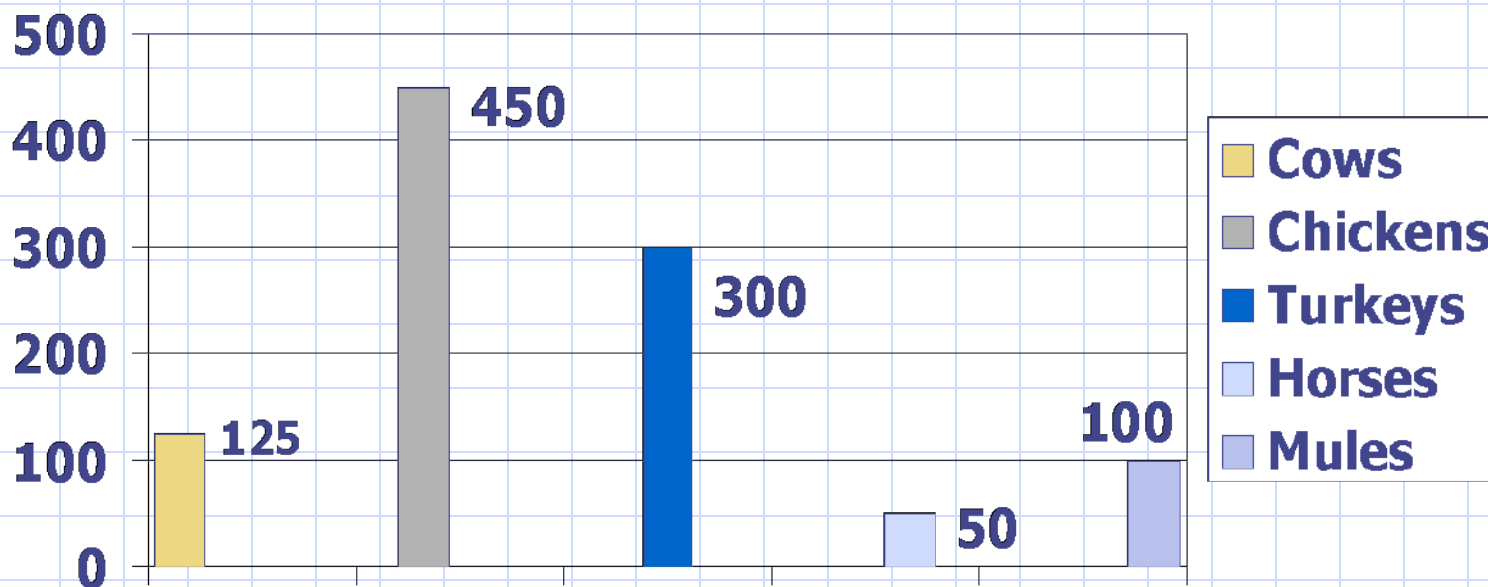
How To Read A Bar Graph.





Learn More About Bar Graphs.

Animals on the farm

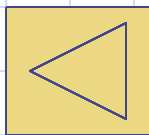
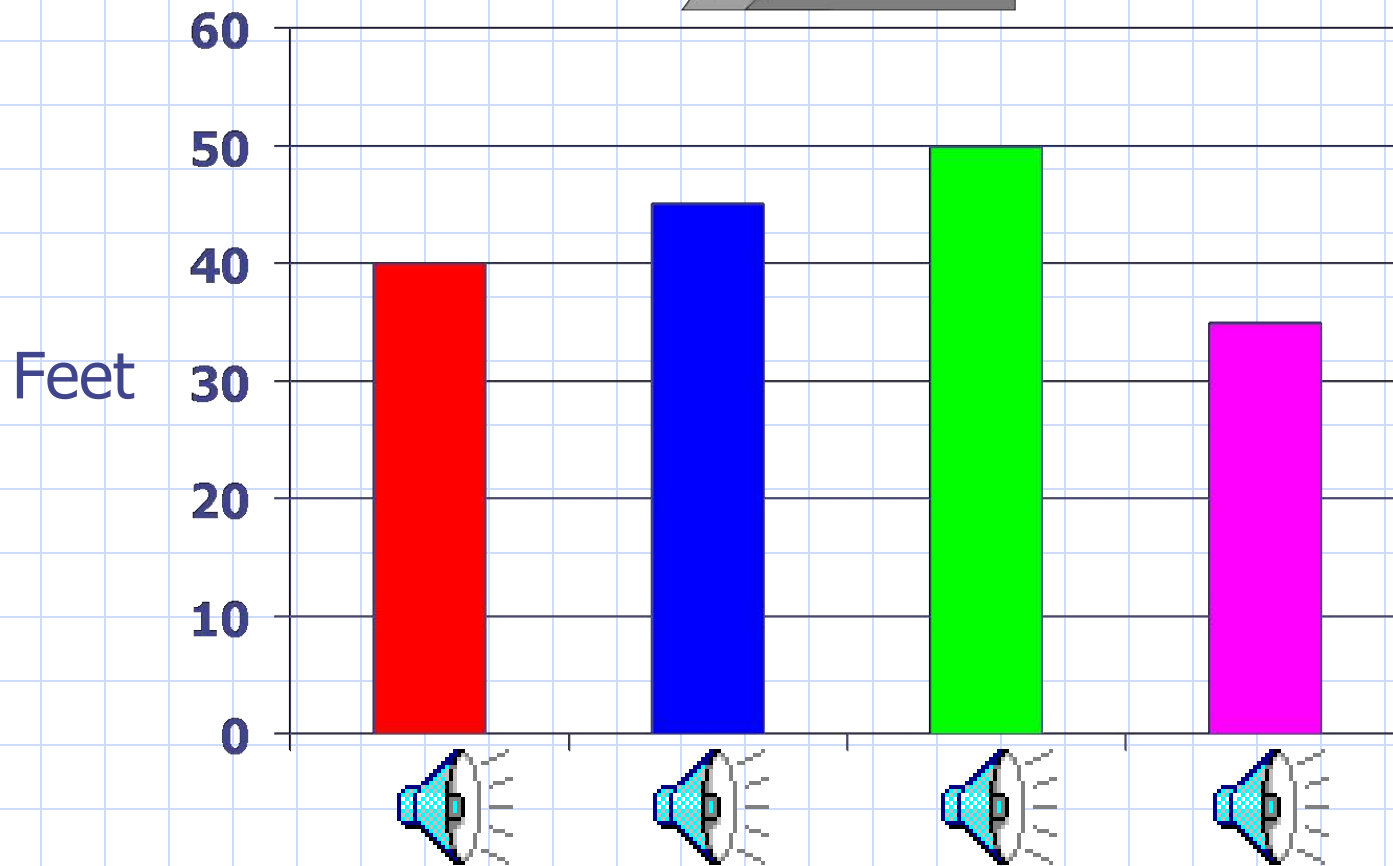




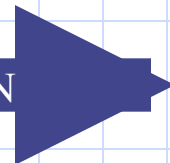
A Challenge.



Which bar on the graph represents 45 feet?

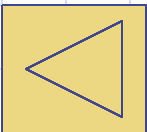
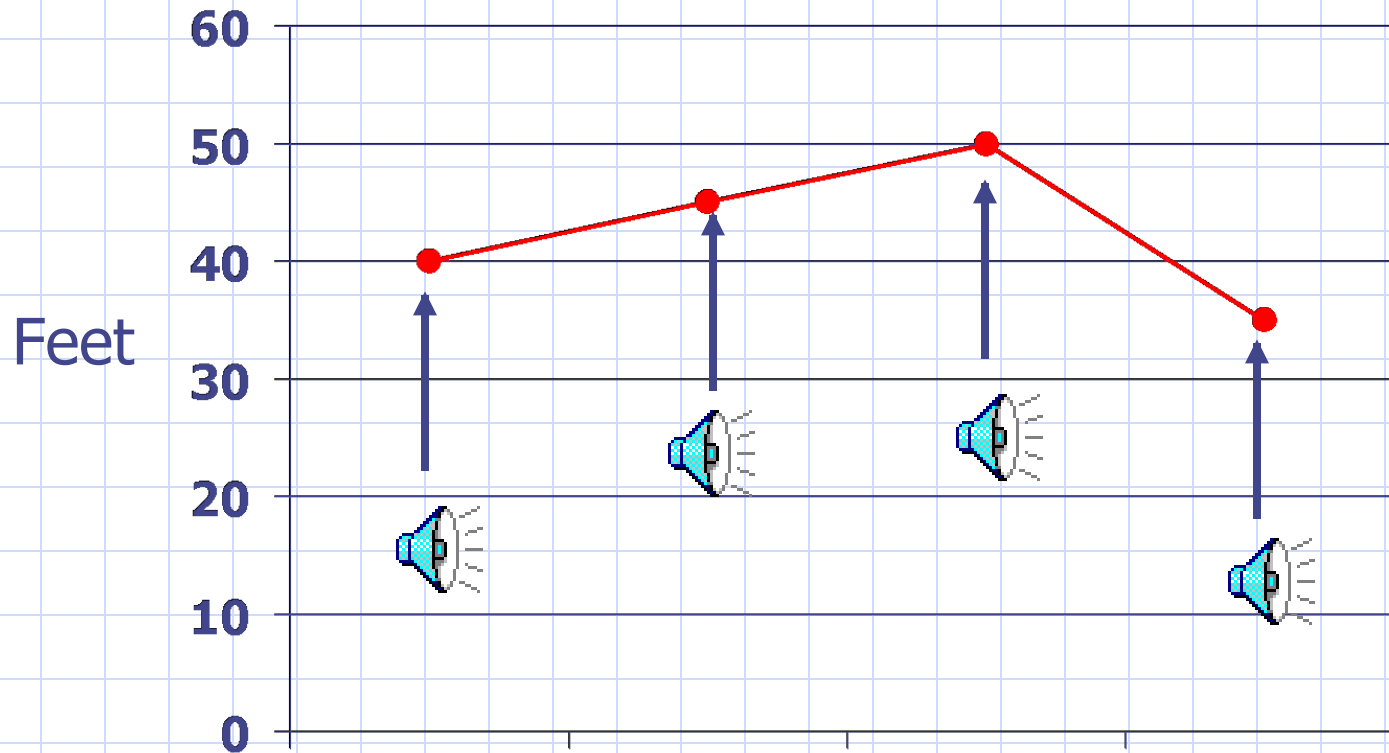
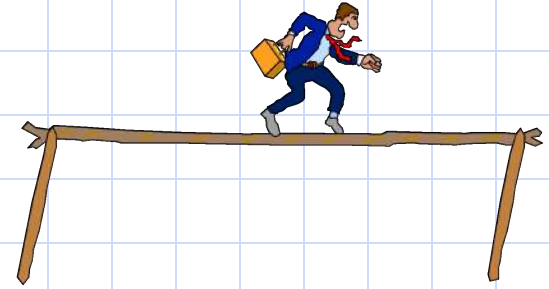


GO ON





Another Challenge



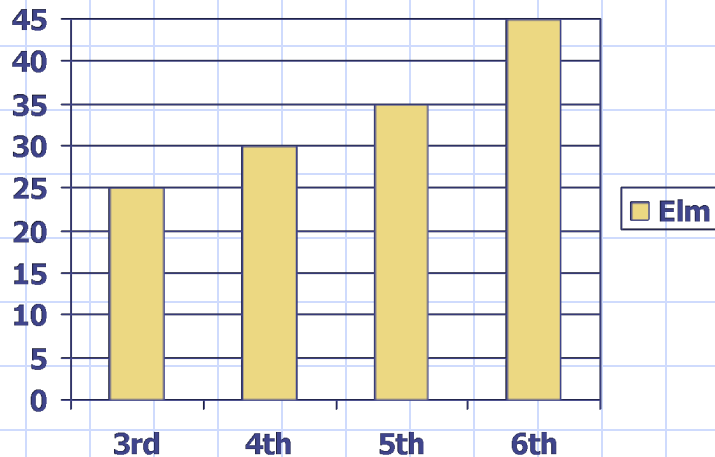


Let's Test Your Skills.

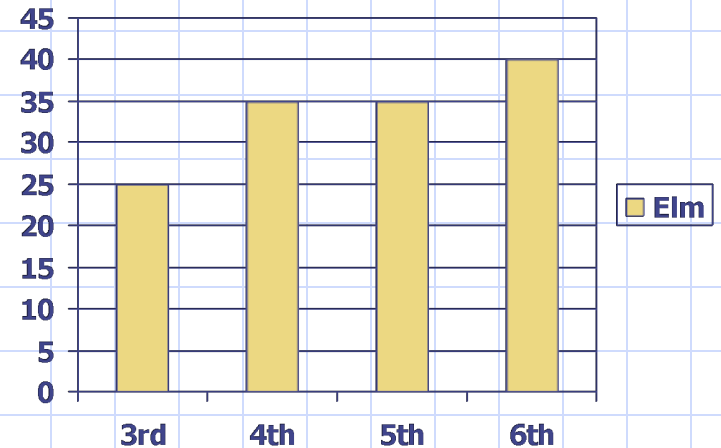
At Elm Street School students have computer class once a week. The chart shows the number of minutes each class spends in the computer lab.

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

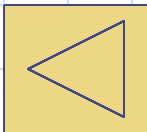
Which is the most appropriate graph of the information shown in the chart?



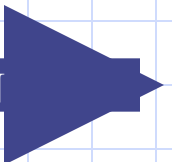
Graph A



Graph B



GO ON



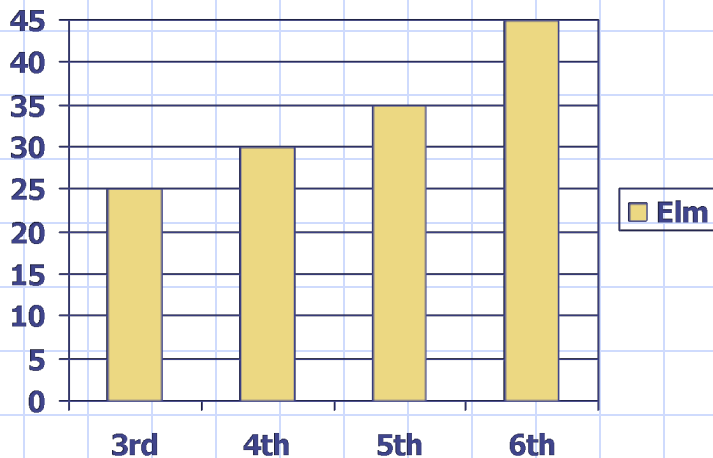


What Is Wrong With Graph B?

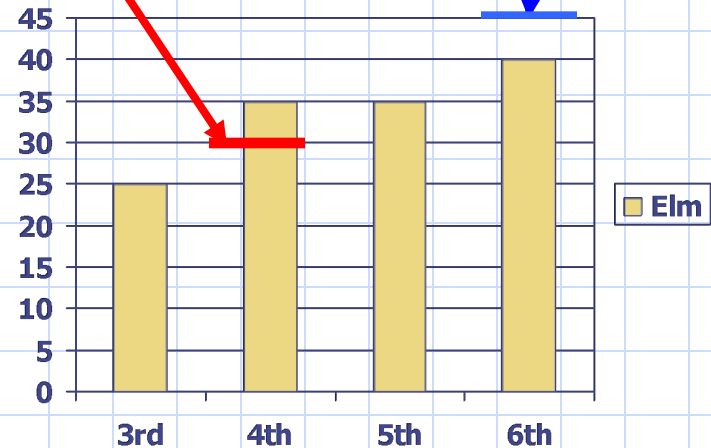
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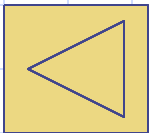
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Graph A



Graph B

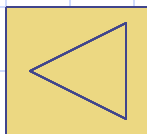
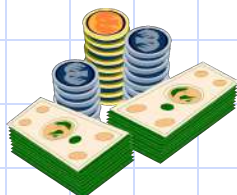
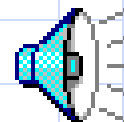
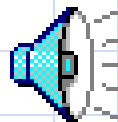
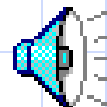
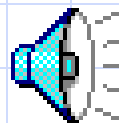
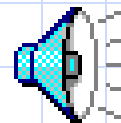




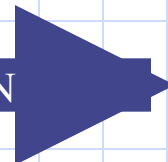
Fun Page.



Click on each
speaker to try to
match the sound
with the picture.

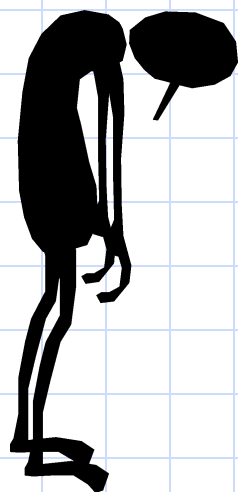


GO ON





Congratulations, You Made It!



My brain
hurts!

