Using Data to Make Graphs

Created by George Pitlik

For the Texas Center for Academic Excellence

TEK 5.13C

GO ON

What Is Data?

Data is information.

An example:

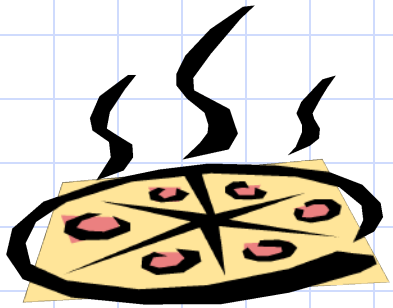
In my fifth grade class we took a pizza lovers survey.

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.



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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.

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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.

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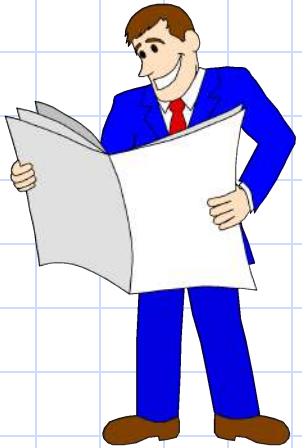
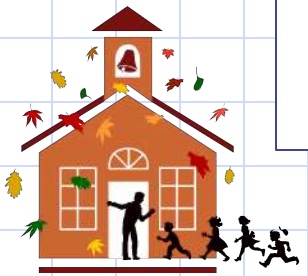
Data Is Everywhere.

TV

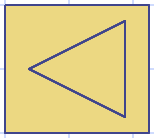
Newspaper



Books



There is way too much data in school!



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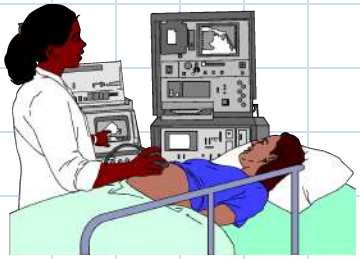
How Do People Use Data?

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



We use data to make money.

Data is needed to build things.

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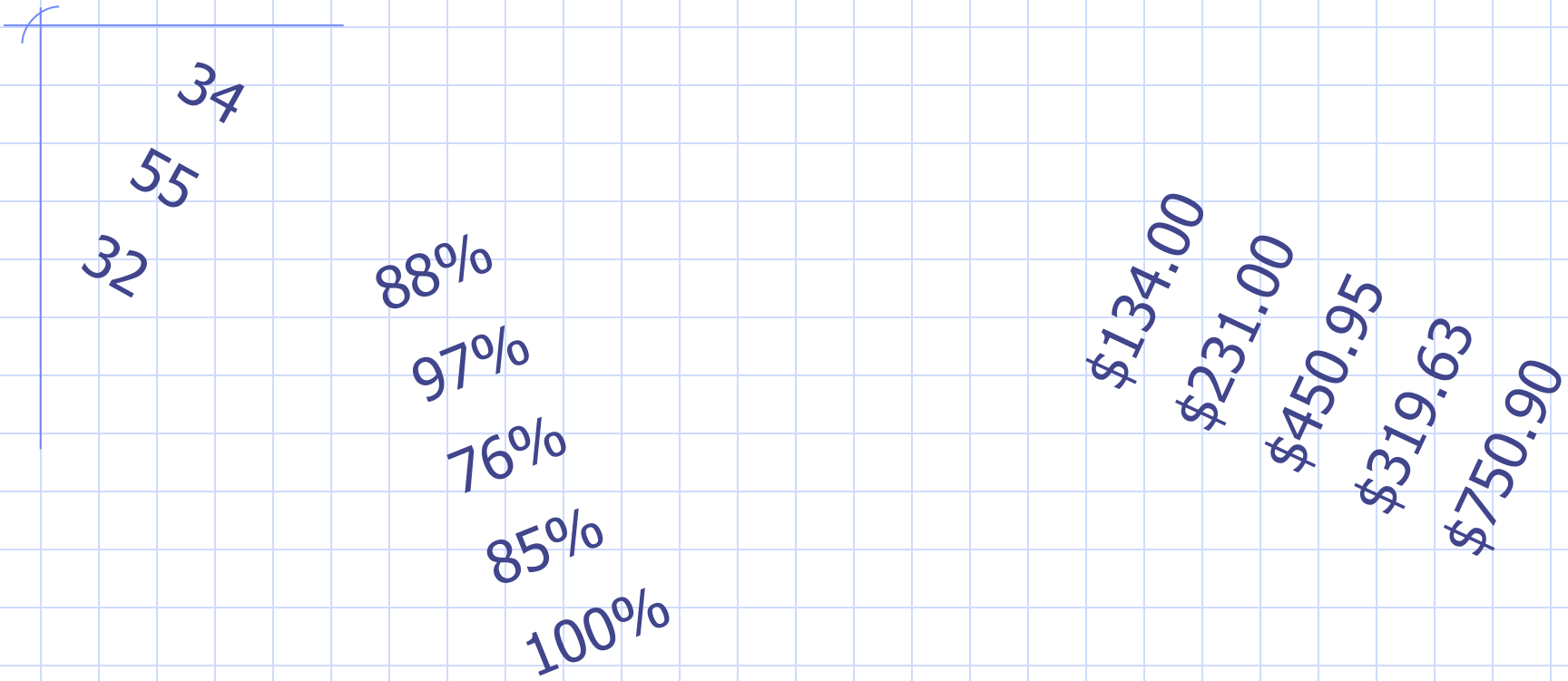
Data Can Be Confusing.



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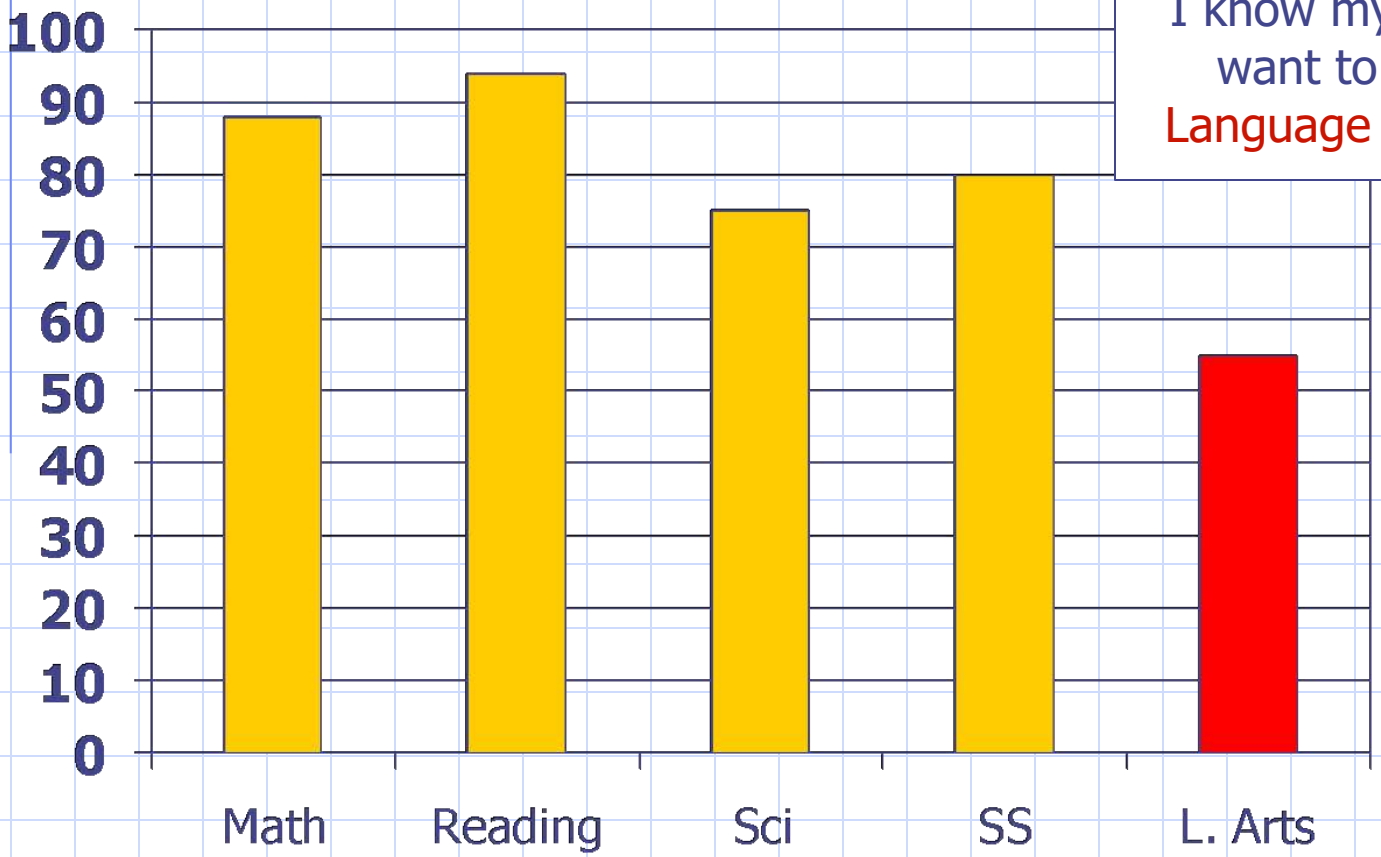
We Use Graphs to Organize Data.



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

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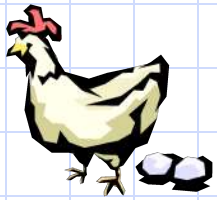
Graphs Make Data Easier to Understand.

Below is data without a graph.

Animals on the farm

Cows	124
Chickens	450
Turkeys	388
Horses	56
Mules	110

Chickens rule!



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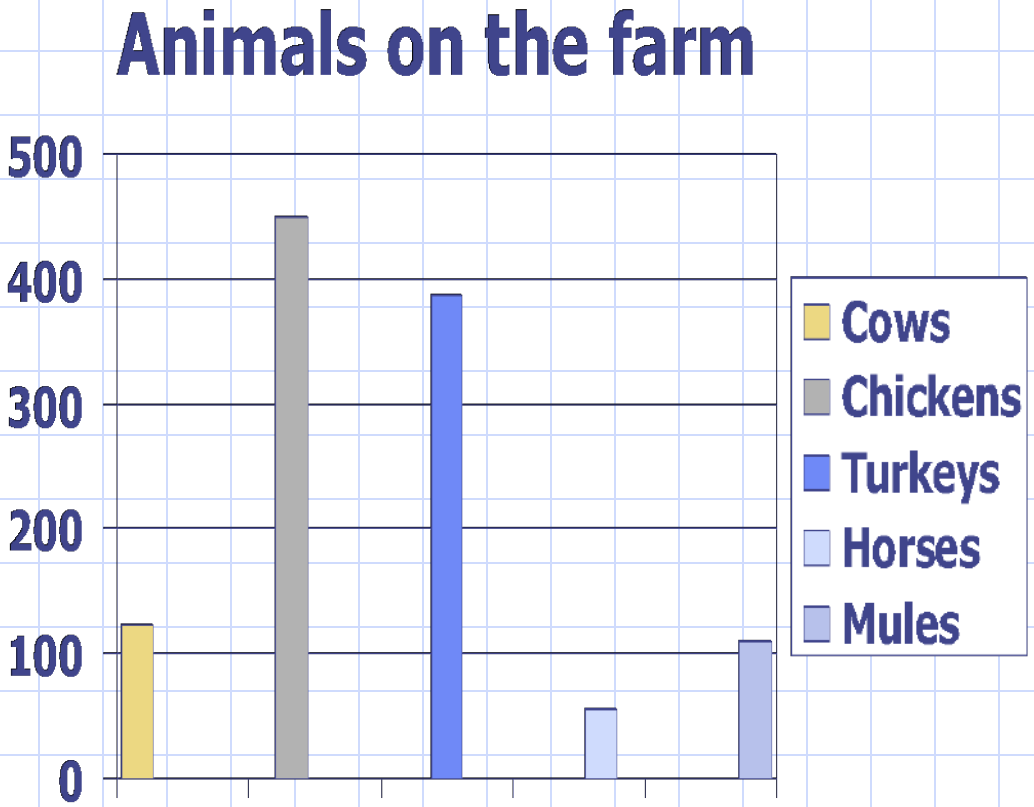
Data WITH A Graph.

Cows	124
Chickens	450
Turkeys	388
Horses	56
Mules	110



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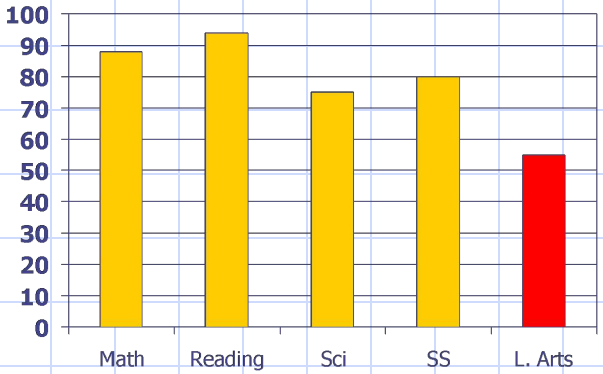
Let's Learn About Graphs.

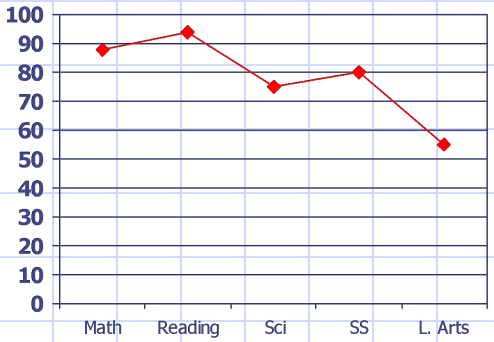
There are many different types of graphs.

Let's learn about two kinds.

1. The bar graph



2. The line graph



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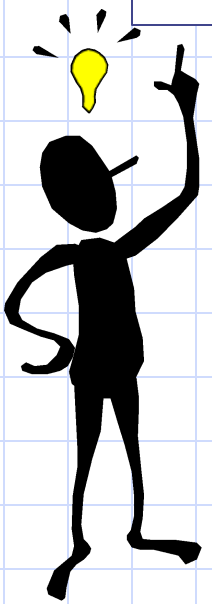
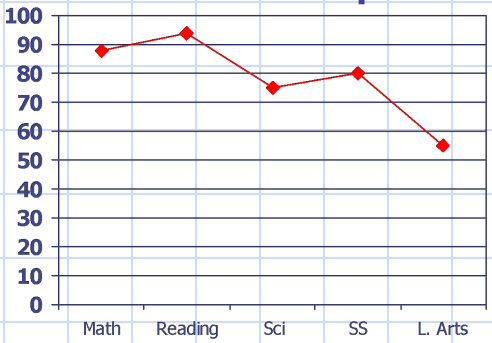
Different Types of Graphs Can Show the Same Data.

Awesome! These graphs show the same data!



Bar Graph

Line Graph



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Check Out the Bar Graph.

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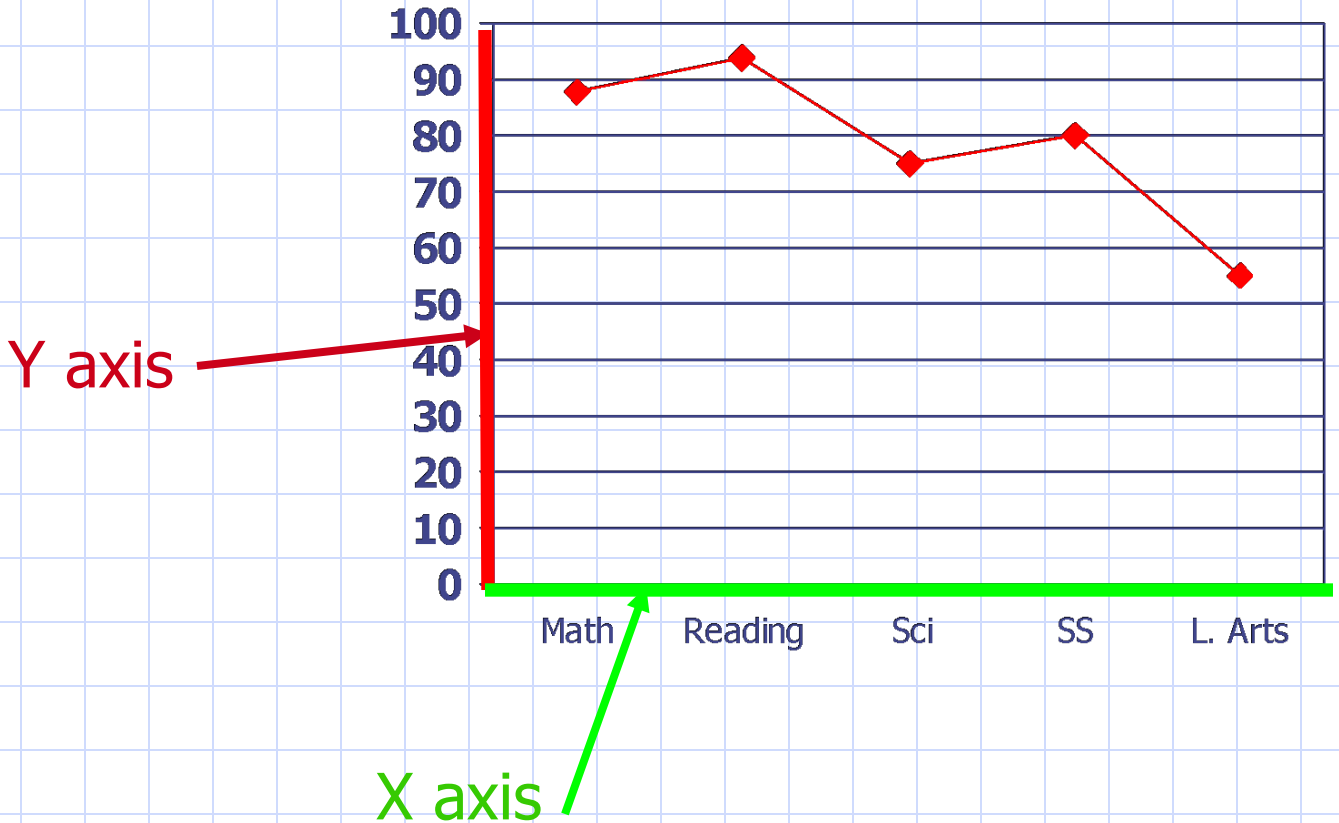
Check Out the Line Graph.



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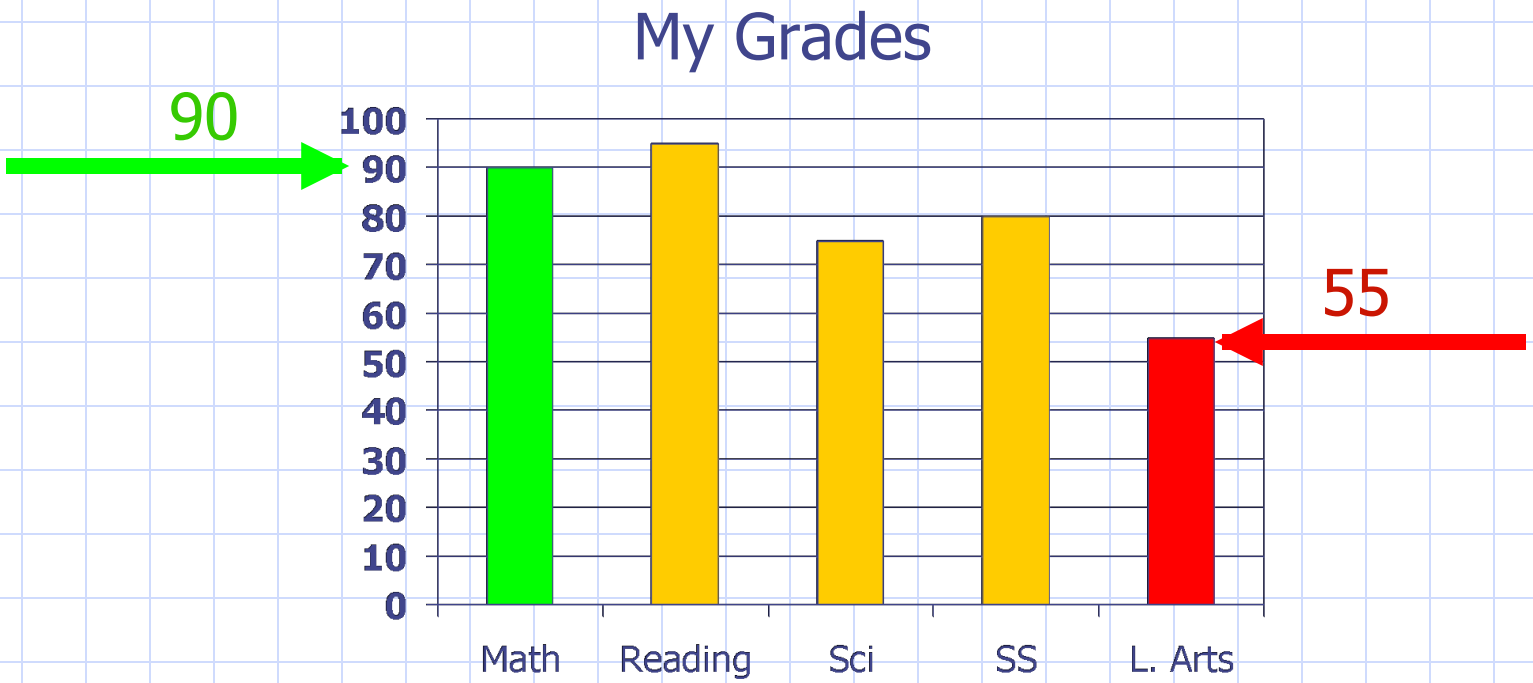
How To Read A Bar Graph.



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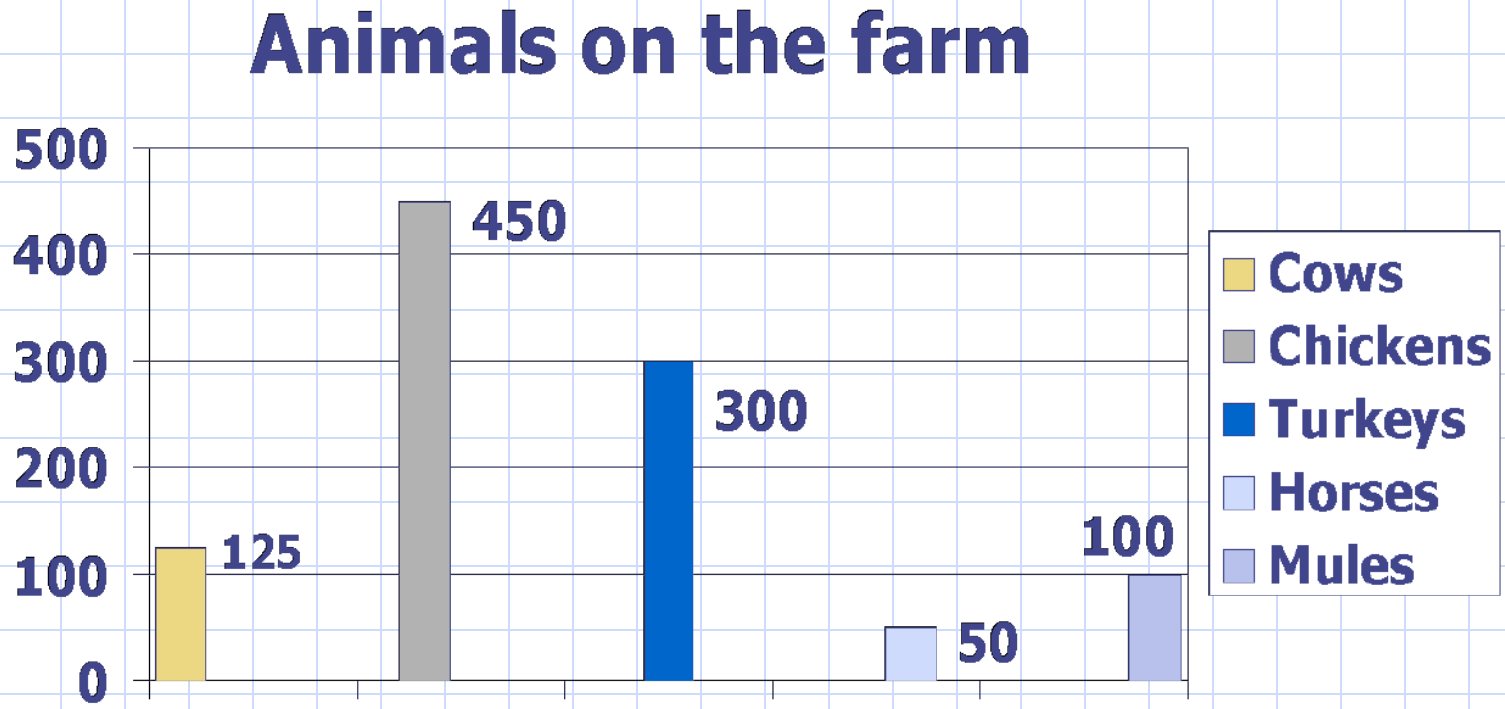
Learn More About Bar Graphs.



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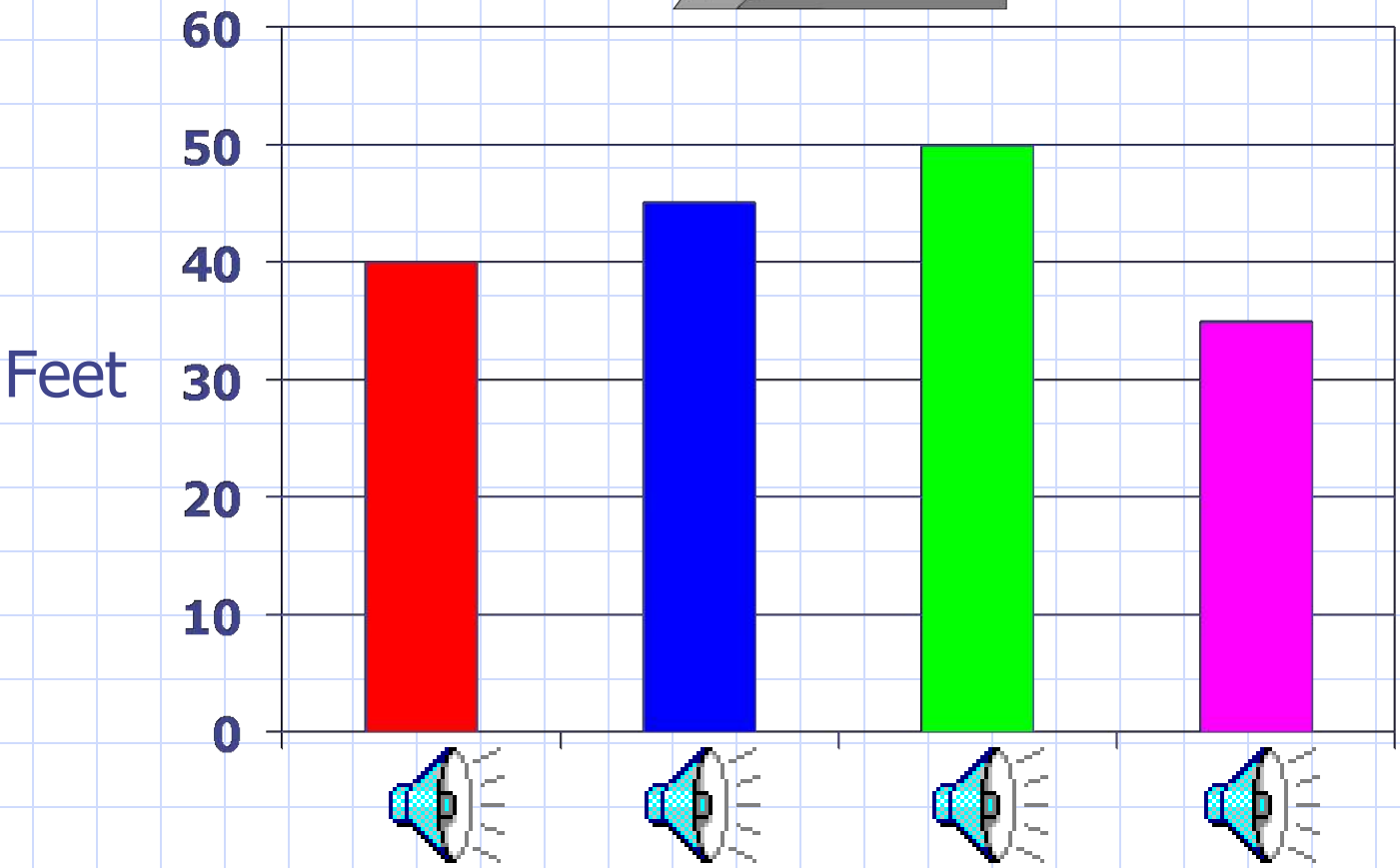
A Challenge.

Which bar on the graph represents 45 feet?



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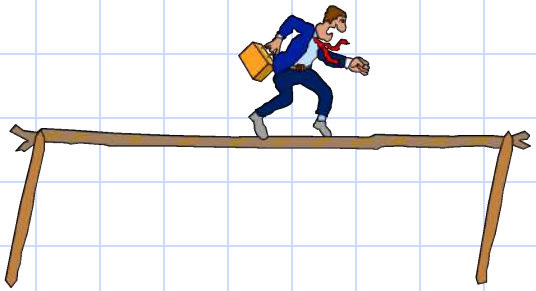
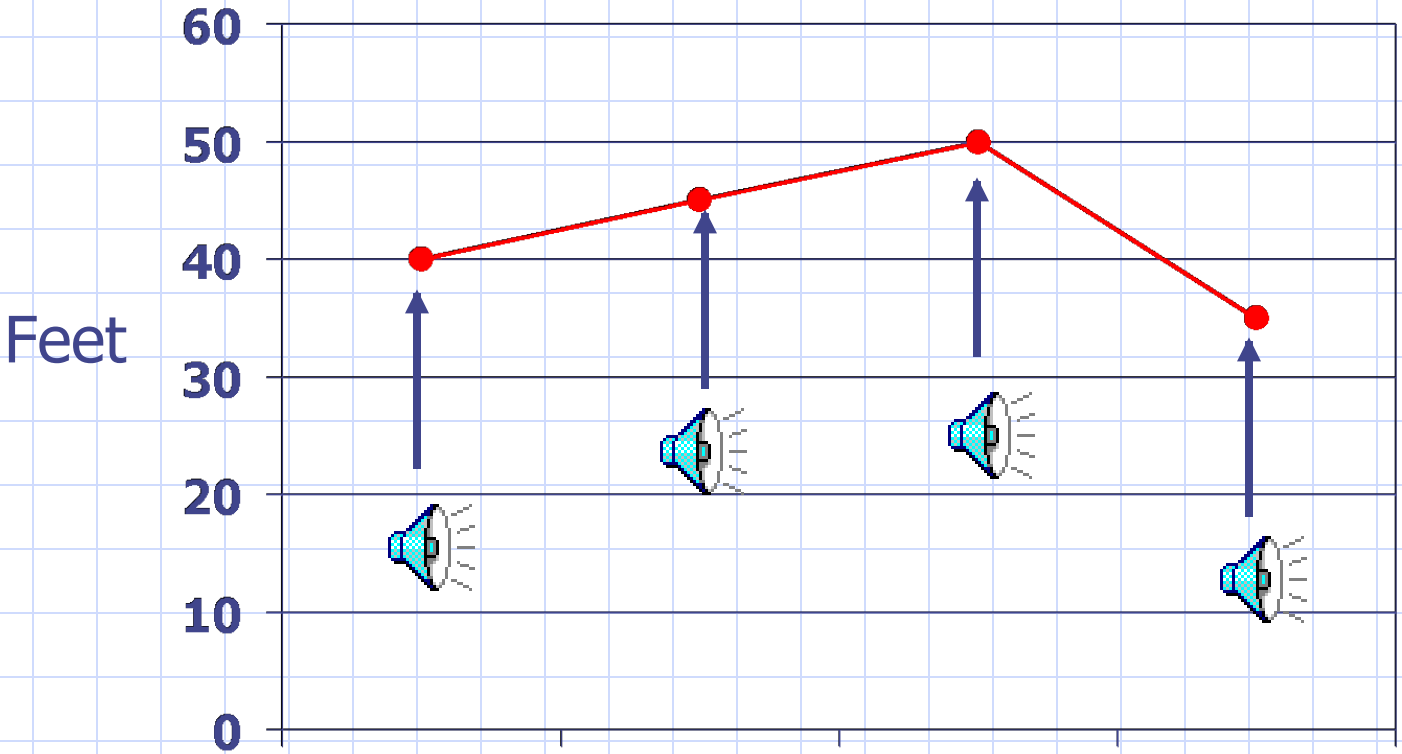
Another Challenge





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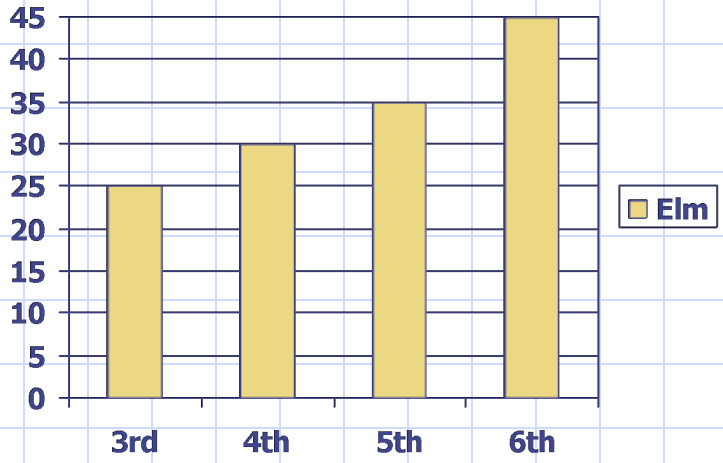
Let's Test Your Skills.

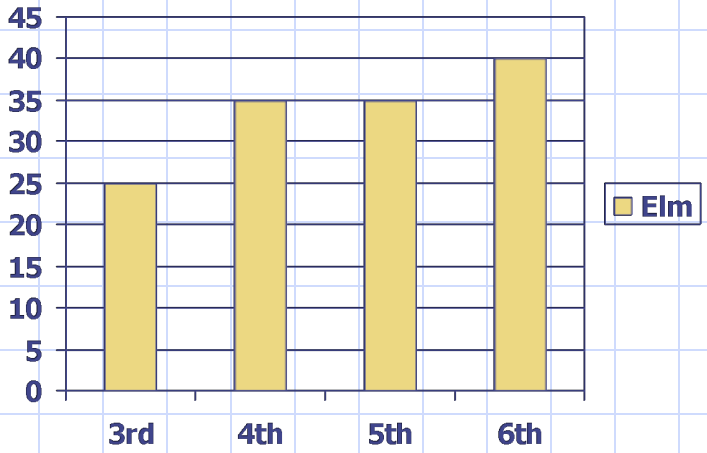
At Elm Street School students have computer class once a week. The chart shows the number of minutes each class spends in the computer lab.

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

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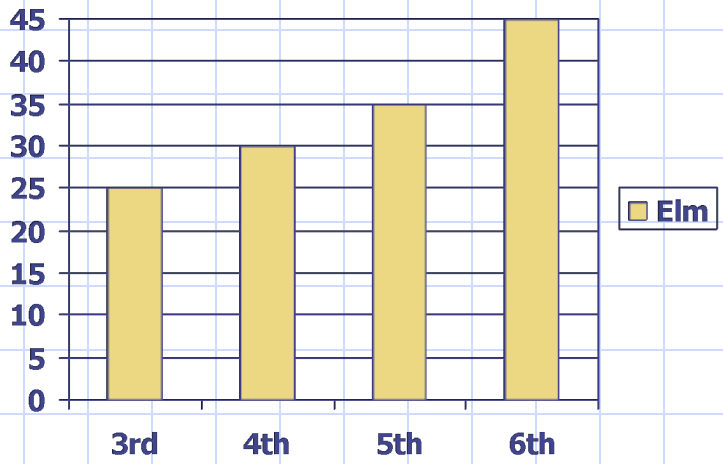
What Is Wrong With Graph B?

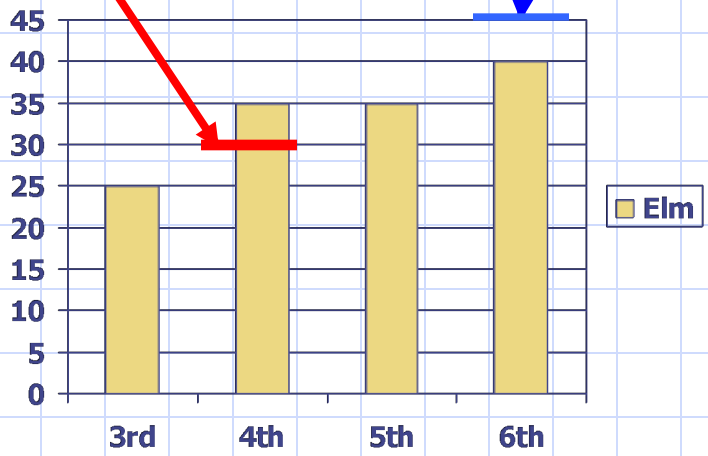
At Elm Street School students have computer class once a week. The chart shows the number of minutes each class spends in the computer lab.

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

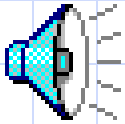


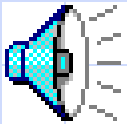
Graph B

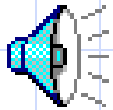
GO ON

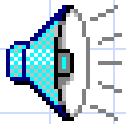
Fun Page.

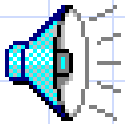
Click on each speaker to try to match the sound with the picture.











GO ON

Congratulations, You Made It!

My brain hurts!